

The Trade Wind Zone Oceanography Pilot Study Part IV: Townsend Cromwell Cruises 11, 12, and 13 December 1964 to February 1965

By Robert L. Charnell, David W. K. Au,
and Gunter R. Seckel



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ABSTRACT

A standard grid of oceanographic stations in an area bounded by lat. 10° and 26° N., and long. 148° and 157° W., was occupied at monthly intervals between February 1964 and June 1965. For the fourth set of three cruises, Townsend Cromwell cruises 11, 12, and 13, December 1964 to February 1965, oceanographic station data are tabulated, BT data are presented in vertical sections, and the distribution of surface temperature, surface salinity, and surface dynamic height relative to 1,200 m. are shown in charts for each cruise. Methods and procedures as well as the limitations of the data are discussed.

INTRODUCTION

This is the fourth of a series of reports presenting physical oceanographic data of the Trade Wind Zone Oceanography Pilot Study conducted by the Bureau of Commercial Fisheries Biological Laboratory, Honolulu. The data were obtained during a series of 16 monthly cruises between February 1964 and June 1965 over a set station pattern in an area near the Hawaiian Islands bounded approximately by lat. 10° and 26° N. and long. 148° and 157° W.

The complete set of observations represents a three-dimensional time-sequence distribution of properties (temperature, salinity,...) in the trade wind zone of the central North Pacific. It is a pilot study of an investigation in which seasonal changes in the distribution of properties are to be explained in terms of 1) seasonal

changes in the processes of net heat and water exchange across the sea surface, and 2) the effects of seasonal changes in wind stress and water motion. The Trade Wind Zone Oceanography Program was planned by Gunter R. Seckel and is carried out under his direction by HL (Bureau of Commercial Fisheries Biological Laboratory, Honolulu).

This report contains the BT (bathythermograph) and oceanographic station data for the 11th, 12th, and 13th cruises in the series. Figure 1 shows the cruise track for the three cruises and gives the position of the Nansen bottle oceanographic casts and the BT casts.

All cruises were made by the R/V Townsend Cromwell, commanded by Captain Robert E. K. D. Lee, with officers Jan Liefting and Pete Andrich. The scientific parties were composed of the following:

Townsend Cromwell, cruise 11:
December 1 to 20, 1964

Thomas S. Hida - HL - Field Party Chief
Joseph R. Harada - HL
Henry M. Kishinami - HL
Jerome S. W. Marr - HL
Howard N. Morinaga - HL
Charles J. Rollet - HL
Roger B. Clapp - Smithsonian Institution

Note.--Robert L. Charnell, Oceanographer, presently with Hazelton Nuclear Science Corp., Palo Alto, California 94303, formerly with Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii; David W. K. Au, Physical Science Technician and Gunter R. Seckel, Oceanographer, Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812.

Warren King - Smithsonian Institution
Townsend Cromwell, cruise 12:

January 5 to 24, 1965

Robert L. Charnell - HL - Field Party Chief
Henry M. Kishinami - HL
Robert M. Moncrief - HL
Frank A. Moriguchi - HL
Alan M. Osato - HL
Patrick Gould - Smithsonian Institution
Warren King - Smithsonian Institution

Townsend Cromwell, cruise 13:

February 2 to 4 and 8 to 27, 1965

David W. K. Au - HL - Field Party Chief
Jerome S. W. Marr - HL
Howard N. Morinaga - HL
Alan M. Osato - HL
Charles J. Rollet - HL
Roger B. Clapp - Smithsonian Institution
Warren King - Smithsonian Institution

OBSERVATIONS^{1/}

In addition to the regular Nansen and BT casts shown in figure 1, BT casts were made at 18.5-km. (10-nautical-mile) intervals for studies of variability between stations 2 and 4, 17 and 19, and 23 and 25. Further bathythermograms were obtained during cruise 12 in conjunction with tests of the XBT (Sippican expendable bathythermograph)^{2/}, carried out by Oscar E. Sette (BCF Biological Laboratory, Stanford, Calif. 94305).

Beginning with cruise 12, surface temperatures and salinity samples were taken from an inside pump system which has an intake at a depth of 8 feet.

A Hytech Model 9006 Salinity-Temperature-Depth Measuring System was tested and used during cruise 13 to collect additional data at stations 7A, 25, and 42.

To supplement the physical oceanographic data presented in this report, additional information of the following types was obtained.

Biological

A 1/2-hour surface plankton tow was taken daily at 2000 hours with a 1-m. net. Flyingfish

which stranded themselves on deck were collected daily. Squid were caught and preserved during cruises 11 and 12. Regular observations of fish schools, sea mammals, and birds were supplemented by more detailed bird counts by observers from the Smithsonian Institution.

Meteorological

Rain measurements as well as standard weather observations were taken four times daily. Radiation from sun and sky was measured and recorded daily with an Eppley pyranometer. These observations were supplemented by daily color photographs of clouds.

Current

Drift bottles or plastic-enclosed drift cards, described by Barkley, Ito, and Brown (1964), were released at each BT cast. The drift cards were released in groups of 10 at each cast during cruise 11. The drift bottles were released in groups of eight at each cast during cruises 12 and 13.

Current-measuring techniques were tested on cruises 11 and 12 by use of a Roberts current meter. On cruise 13 measurements were obtained from the Roberts current meter in the surface layers and an Ekman current meter at 1,200 m.

PREPARATION OF DATA

Standard oceanographic procedures were employed in the preparation of the data for this report. Salinity determinations were made on the University of Washington salinity bridge (Paquette, 1958). Duplicate determinations were made with an induction salinometer. When values differed more than 0.02 ‰, the salinity was redetermined on the U.W. salinity bridge, and the mean of the salinity bridge determinations was reported. Oxygen concentrations were determined by the modified Winkler method (Thompson and Robinson, 1939). Inorganic PO₄-P was determined by the procedure of Robinson and Thompson (1948) as modified at the University of Washington. All thermometers had been calibrated at HL since April 1962. The reported temperatures are estimated to be accurate to $\pm 0.02^{\circ}\text{C}$. Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were per-

^{1/}All data not presented in this report are on file at the Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812

^{2/}Trade names referred to in this publication do not imply endorsement of commercial products.

formed with an IBM 7040 digital computer^{2/} at the University of Hawaii Computing Center with a program written at HL. Depths were determined by the use of values from the L-Z curve for the actual depth. This procedure gave depth estimated to be within ± 10 m. down to 1,000 m. and within ± 1 percent below 1,000 m.

Sigma-t, specific volume anomaly, and the dynamic height were computed on the IBM 7040 computer by the program prepared at HL and based on equations given by LaFond (1951). The computer also was used to interpolate all properties at standard depths by means of a subroutine furnished by the University of Washington Oceanography Department and based on the interpolation method outlined by Rattray (1962).

In the region of study, a sharp thermocline generally separates a surface mixed layer from the subsurface waters. Only infrequently do Nansen casts adequately define this configuration, with the result that the interpolation program provides inaccurate values for temperature. BT data were used to correct the temperature-depth curve in the thermocline and the isothermal layer. When necessary, a value of temperature was chosen from the corrected curve at standard depths in the mixed layer and upper thermocline and, with the corresponding salinity value from the T-S curve, was used with the Nansen cast data in the interpolation program. The resulting interpolated values were much nearer the actual oceanographic situation as implied by the BT trace.

To estimate the validity of values for the surface distribution charts, the surface bucket values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles. For temperature, variation was fairly random so that the mean of the difference between the two values was well within the accuracy of the surface bucket thermometer. The root mean square value computed from the above differences was less than 0.2°C . The bucket salinity values were usually larger than the Nansen bottle values, most probably owing to salt contamination at the time of sampling. The mean of the differences was about $0.003\text{ }^{\circ}/\text{oo}$ and the root mean square value was within $0.07\text{ }^{\circ}/\text{oo}$ for each cruise.

PRESENTATION OF DATA

For each of the three cruises the original as well as derived data and section plots for the

properties have been included.

Tables 1, 2, and 3 contain the oceanographic station data for cruises 11, 12, and 13, respectively. In addition to the position, date, and time at each station, weather and sea conditions in standard notation have been included in the heading of each station. The first five columns of each station listing show the observed depth, temperature, salinity, oxygen, and phosphate, respectively; the next two columns contain calculated sigma-t and specific volume anomaly for the observed data. The next three columns present the interpolated values of temperature and salinity at standard depths and the last three columns contain sigma-t and the specific volume anomaly calculated from the interpolated data and the anomaly of dynamic height summed from the surface. The error terms, defined by the Rattray interpolation technique, that exceeded 0.10 for temperature and 0.05 for salinity have been noted below the tabulation for each station. Interpolated and extrapolated values as well as irregularities in the original data are noted in these tables.

Temperature distribution sections along long. 148° W. , 151° W. , 154° W. , and 157° W. based on the 270-m. BT's are included; so are the shorter zonal sections between stations 7 and 7A, 25 and 26, and 37 and 40. In addition, surface temperature and salinities are presented with each section. All the sections were plotted automatically by the model 566 Calcomp plotter with a program designed at HL. These seven BT sections are shown in figures 2 through 7 for cruise 11, figures 8 through 13 for cruise 12, and figures 14 through 19 for cruise 13.

The surface temperature distributions, based on bucket or intake temperature at each BT cast, are shown in figures 20, 21, and 22 for cruises 11, 12, and 13, respectively.

The surface salinity distributions, based on bucket or intake salinity samples at each BT cast, are shown in figures 23, 24, and 25 for cruises 11, 12, and 13, respectively.

The dynamic topography, relative to 1,200 m. for cruises 11, 12, and 13, is shown in figures 26, 27, and 28, respectively.

ACKNOWLEDGMENTS

The data for these cruises were processed by HL personnel under the direction of Mary Lynne Godfrey. Betty Ann L. Keala did the computer programing.

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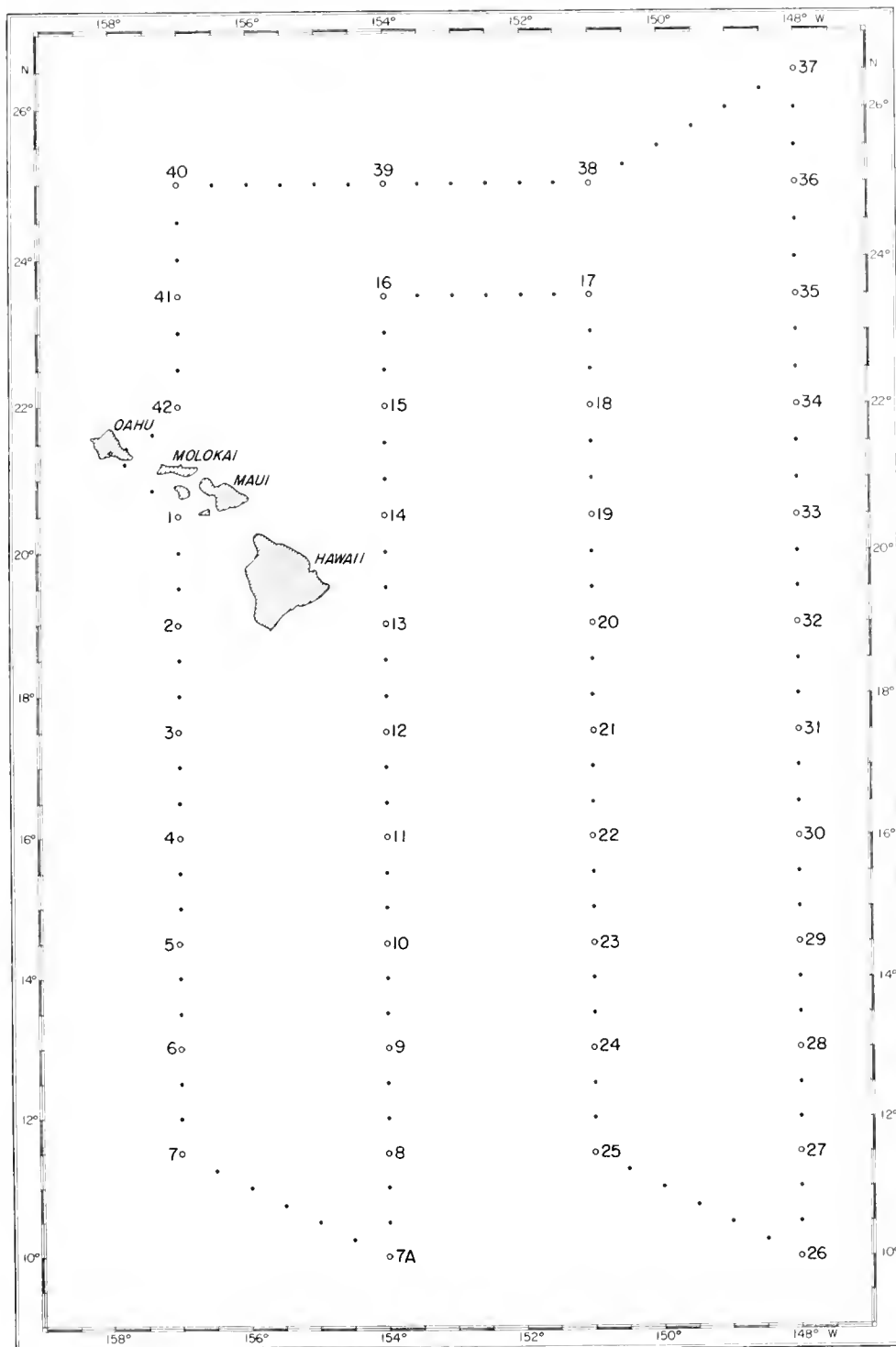


Figure 1.--Track chart for Townsend Cromwell cruises 11, 12, and 13. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

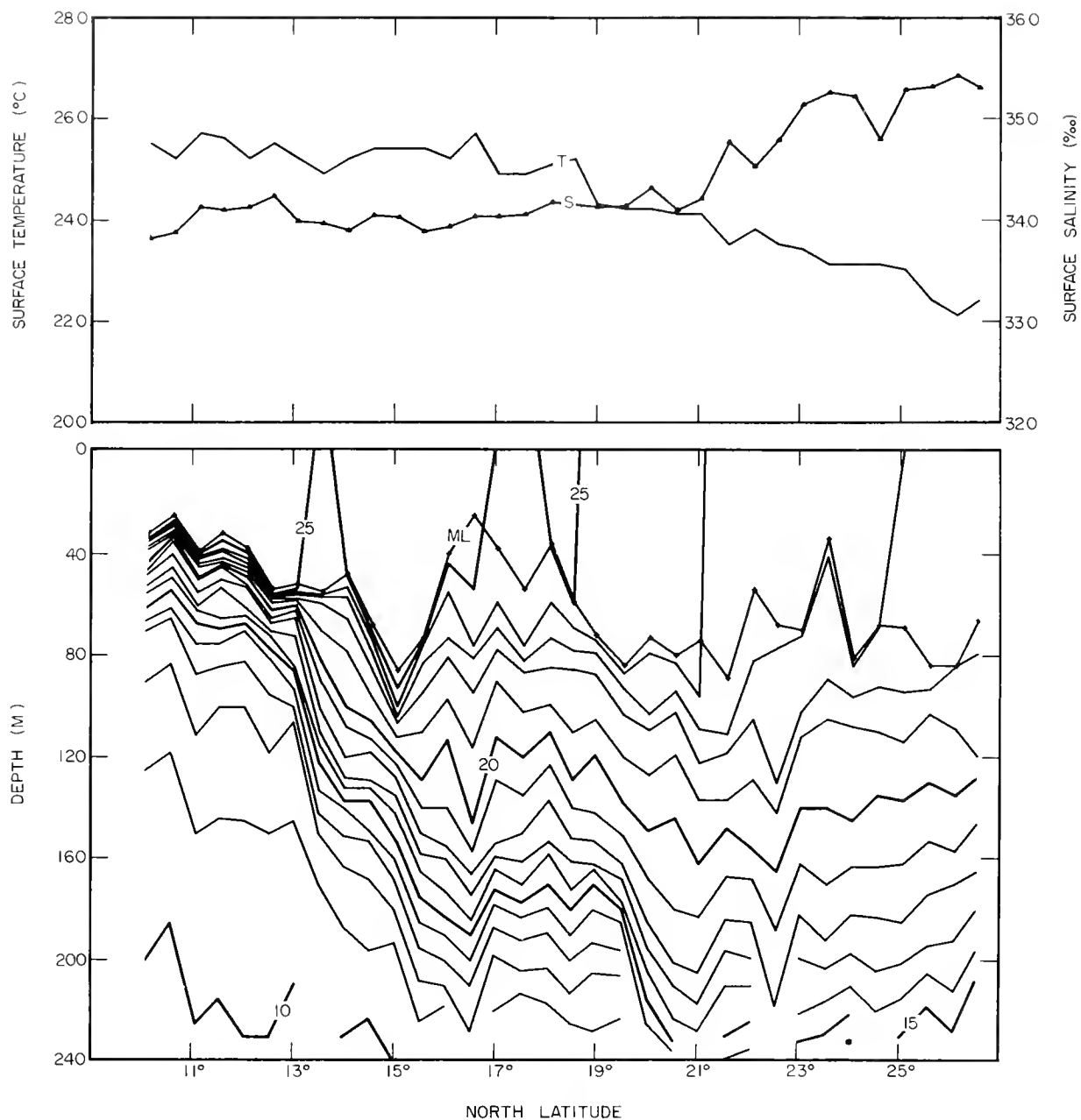


Figure 2.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 11 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

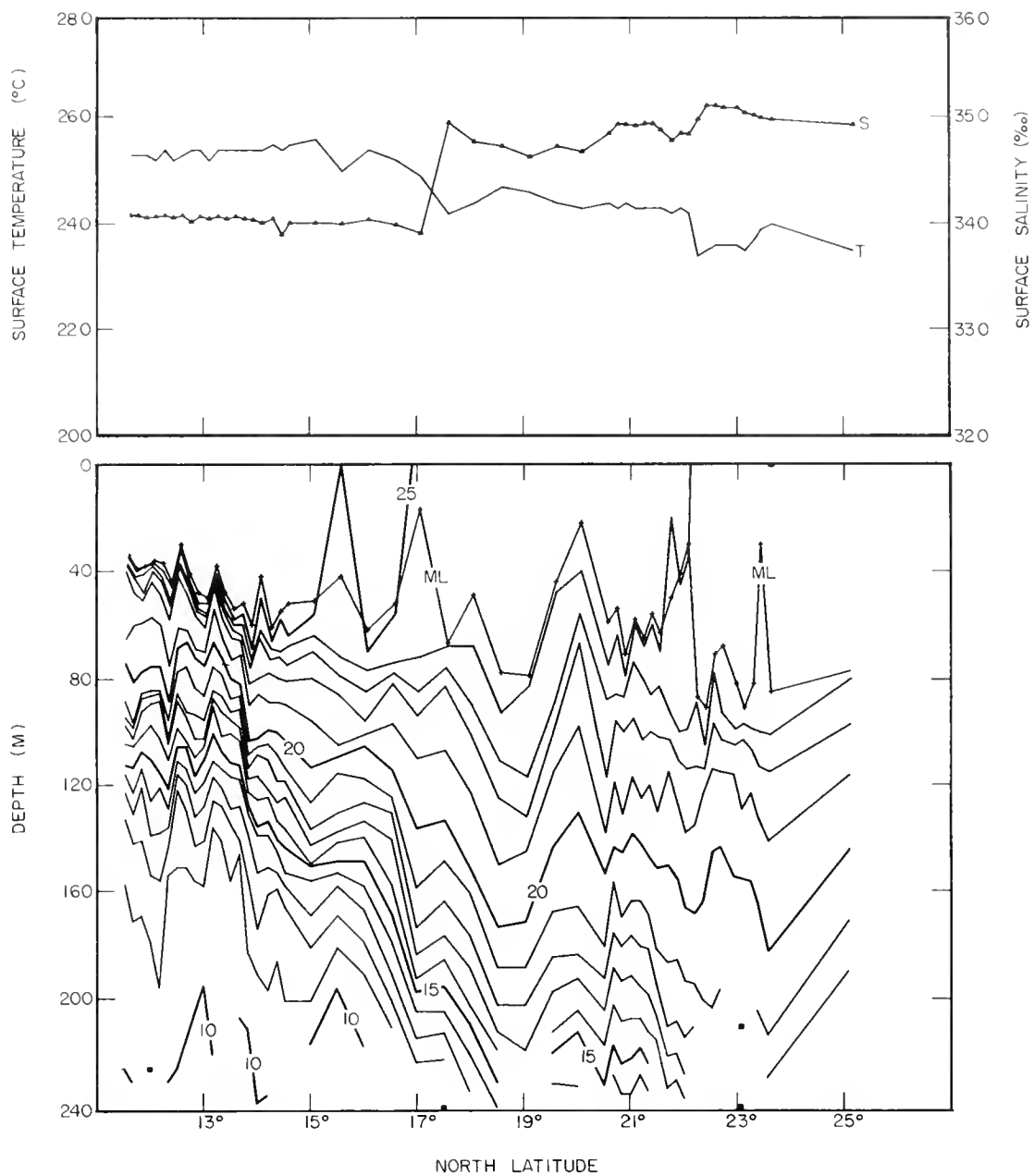


Figure 3.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 11 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

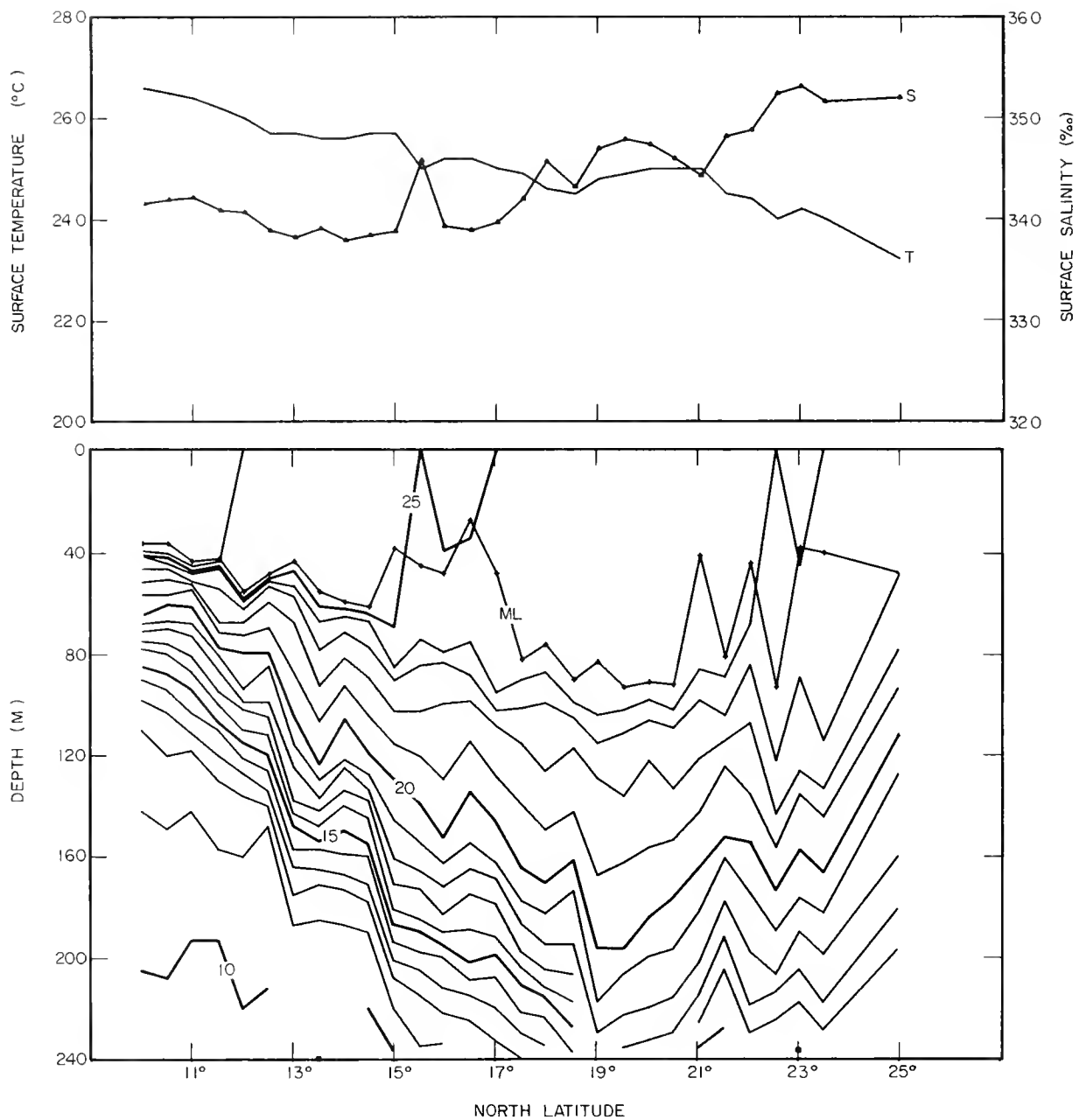


Figure 4.--Surface temperatures ($^{\circ}\text{C}.$) and salinities ($^{\circ}/\text{oo}$) (upper panel) and BT temperature ($^{\circ}\text{C}.$) section (lower panel) for Townsend Cromwell cruise 11 along long. 154°W . The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

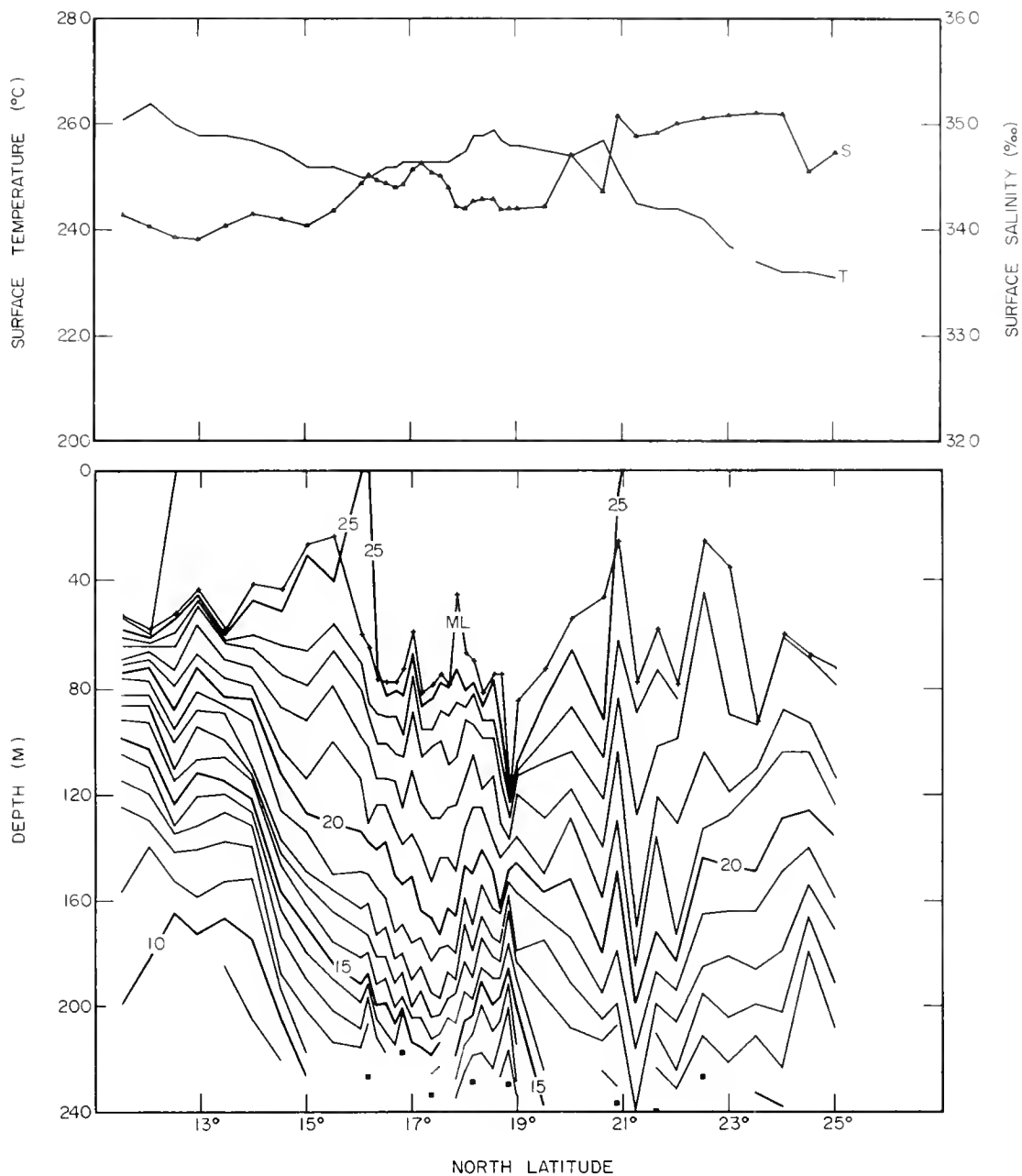


Figure 5.--Surface temperatures ($^{\circ}\text{C}.$) and salinities (‰) (upper panel) and BT temperature ($^{\circ}\text{C}.$) section (lower panel) for Townsend Cromwell cruise 11 along long. $157^{\circ}\text{W}.$ The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

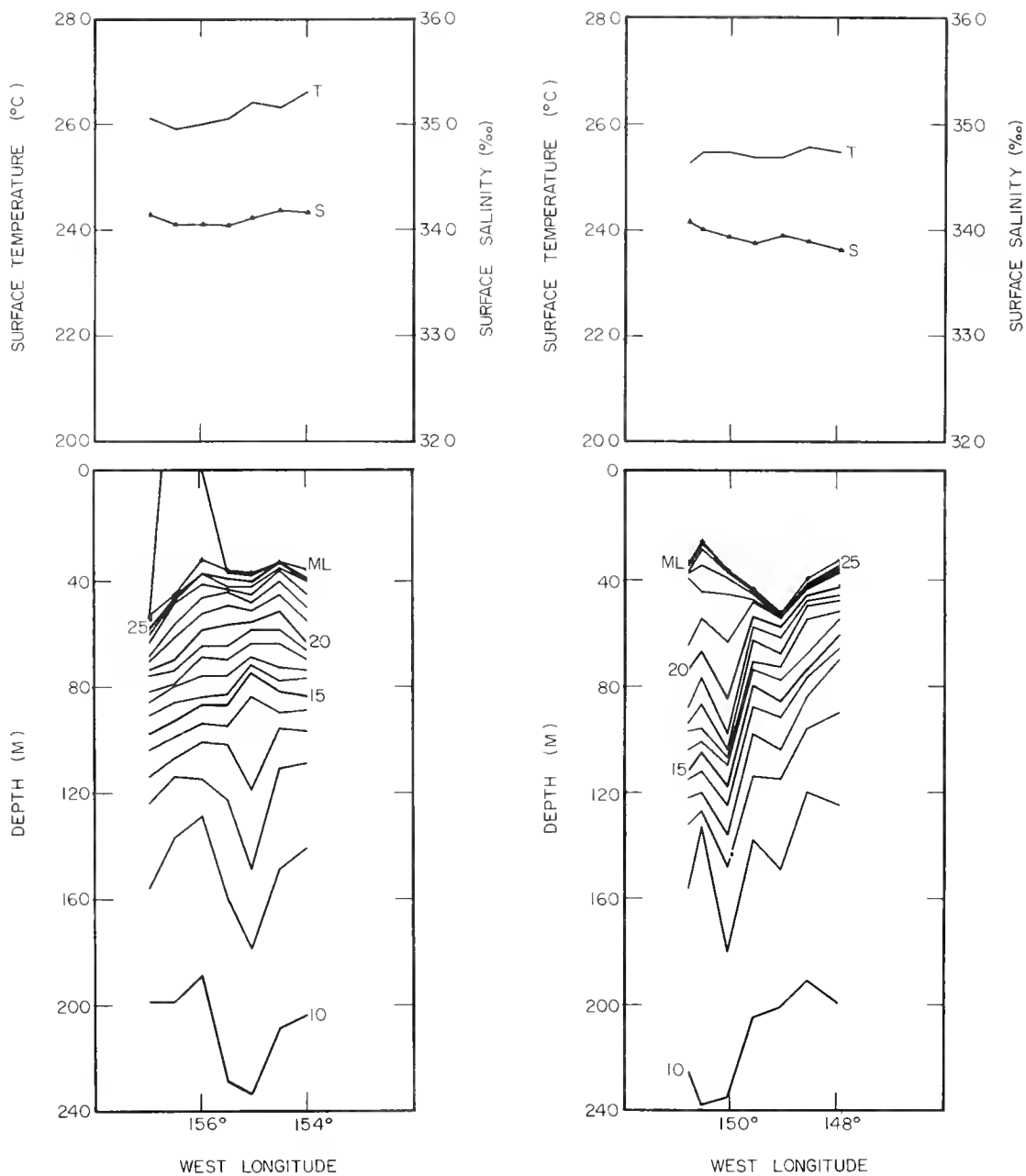


Figure 6.--Surface temperatures ($^{\circ}\text{C}$.) and salinities (‰) (upper panel) and zonal BT temperature ($^{\circ}\text{C}$.) section (lower panel) for Townsend Cromwell cruise 11 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

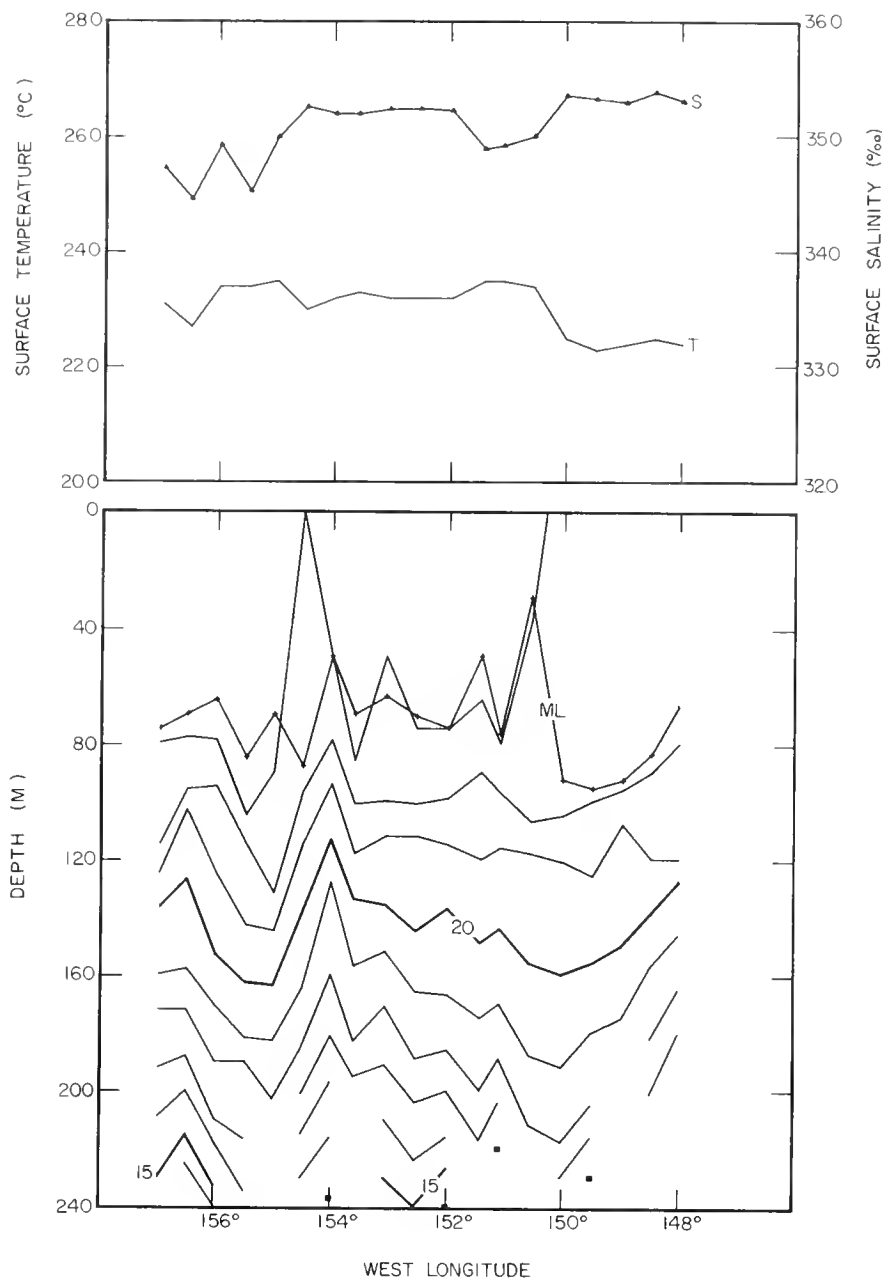


Figure 7.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 11 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

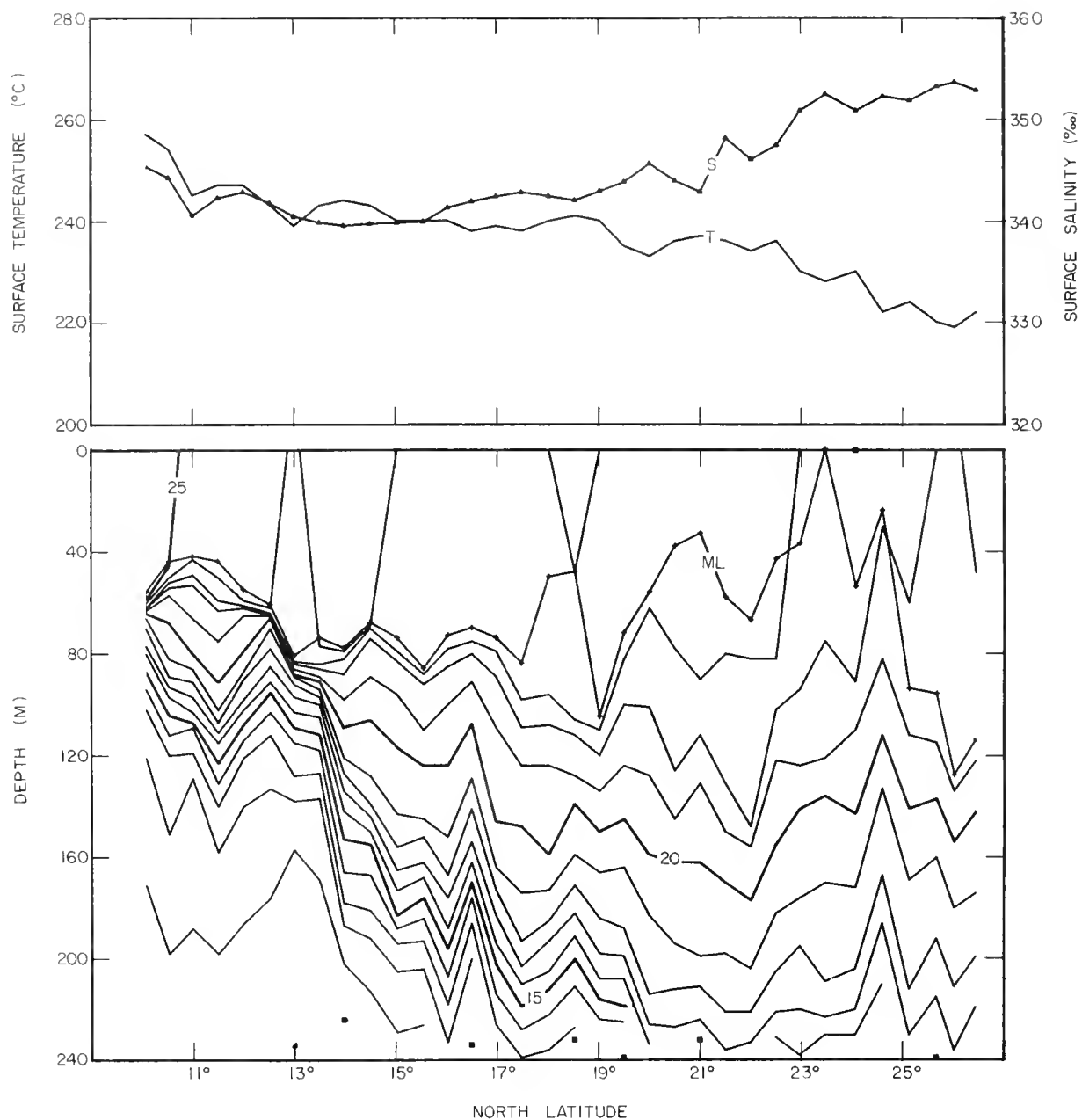


Figure 8.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 12 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

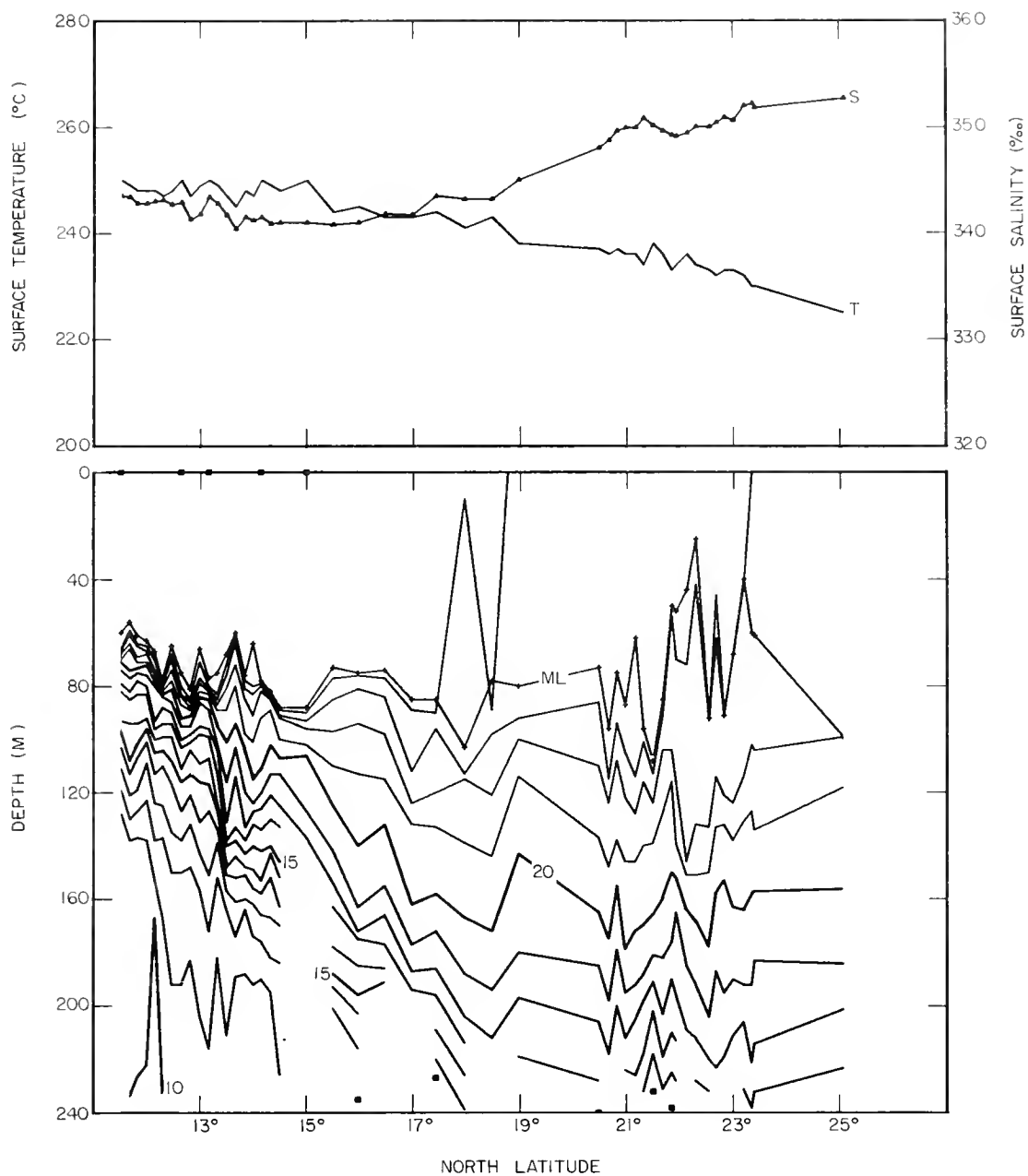


Figure 9.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 12 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

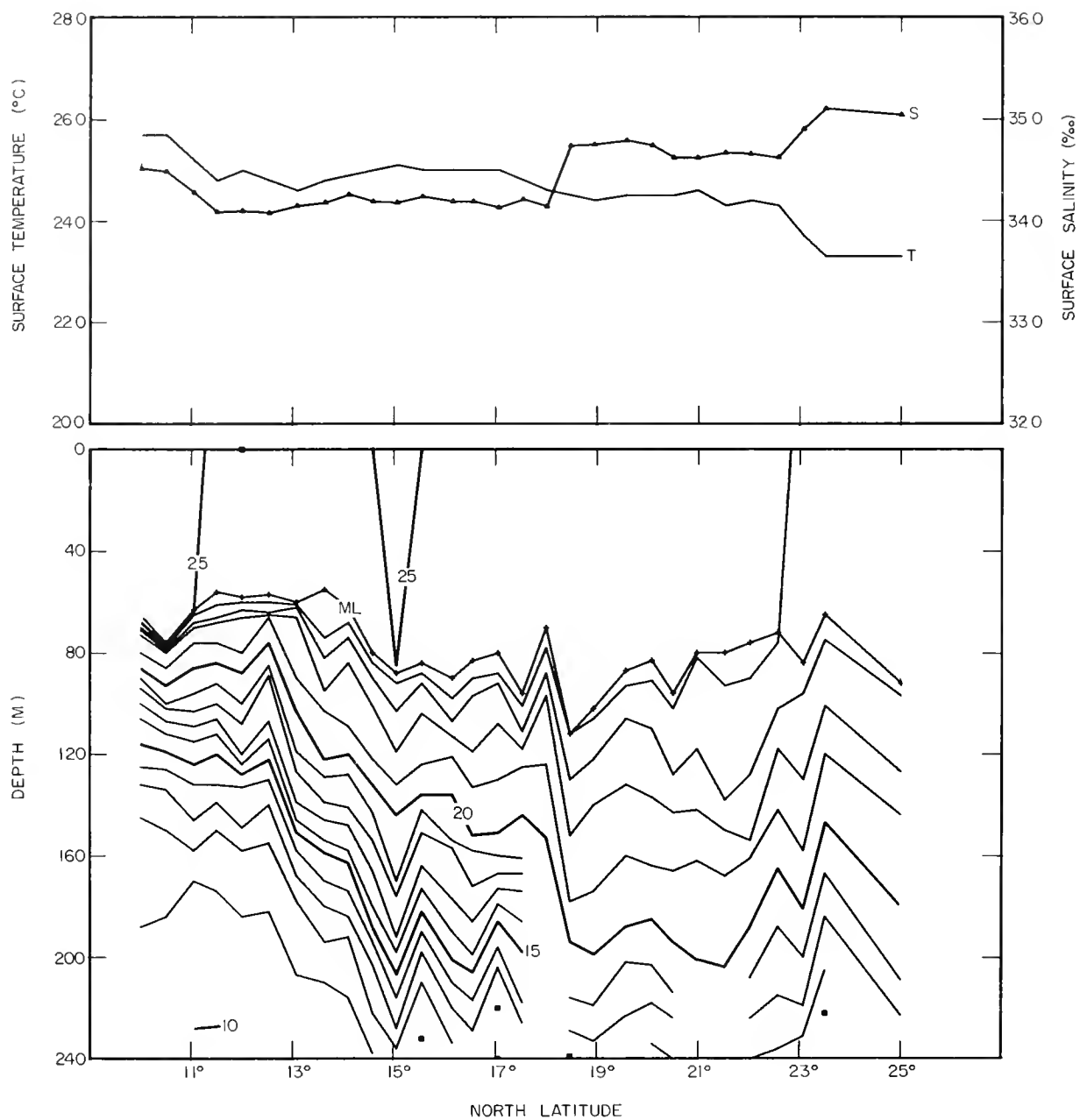


Figure 10.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 12 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

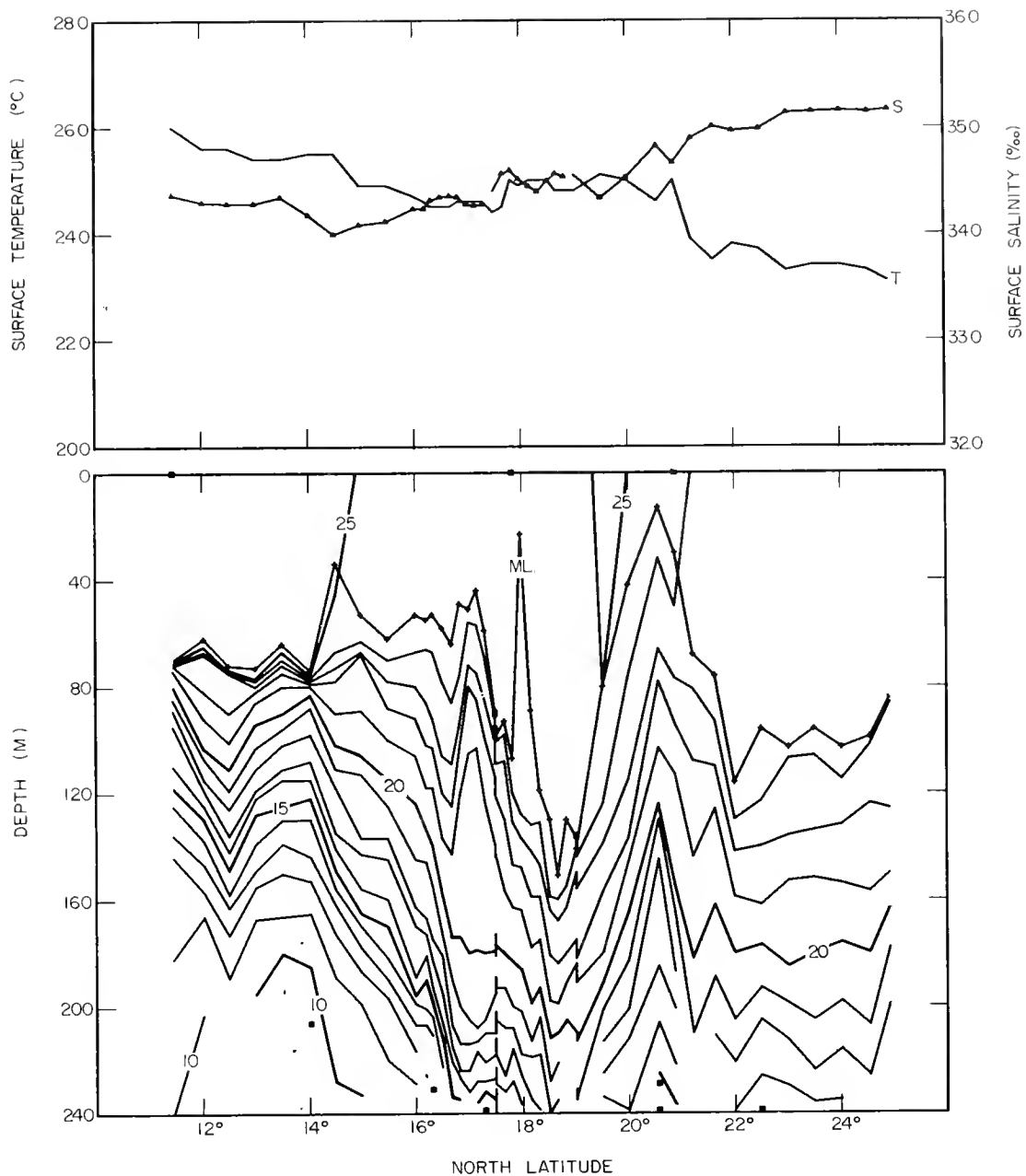


Figure 11.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 12 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

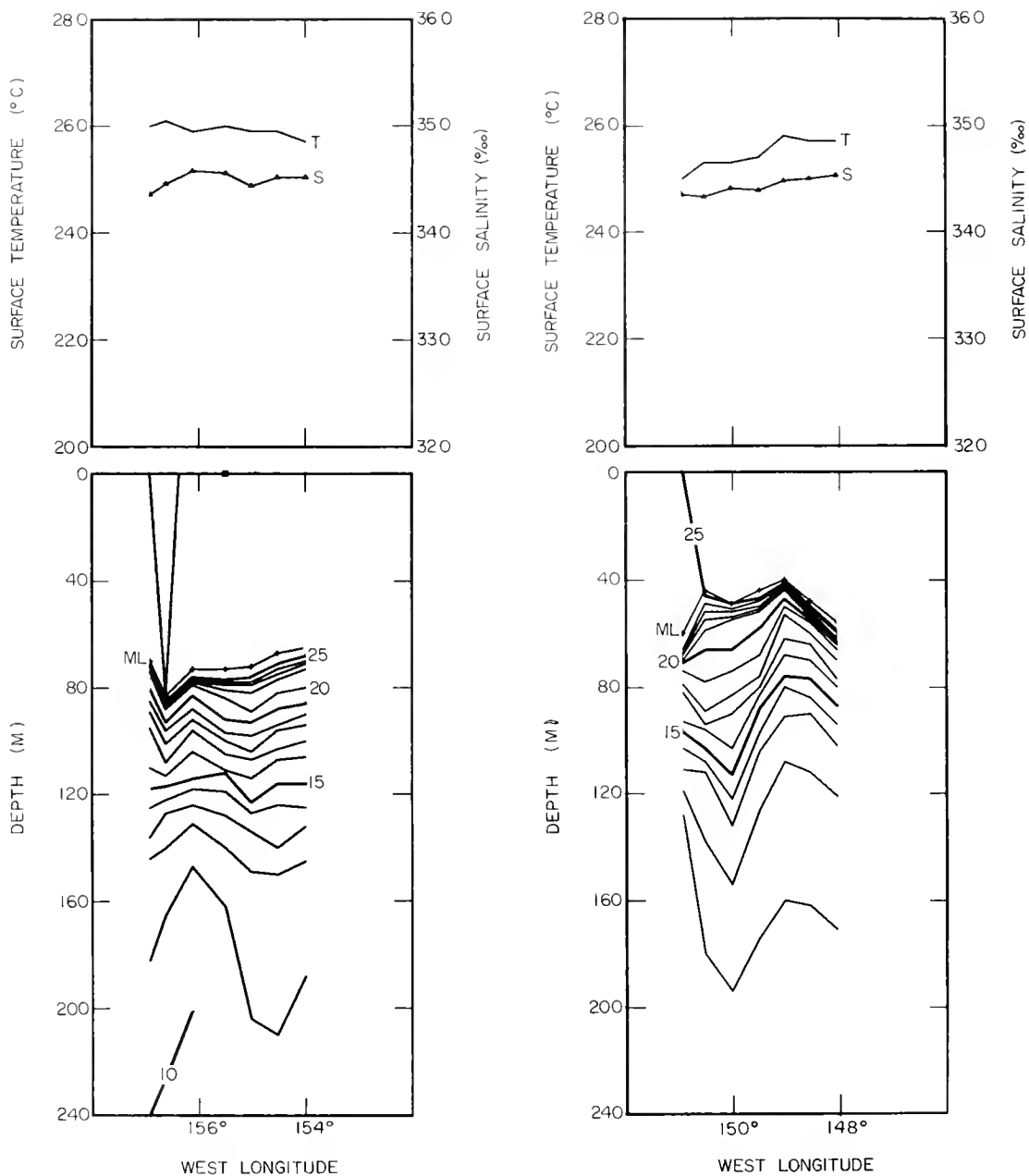


Figure 12.--Surface temperatures (° C.) and salinities (‰) (upper panel) and zonal BT temperature (° C.) section (lower panel) for Townsend Cromwell cruise 12 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

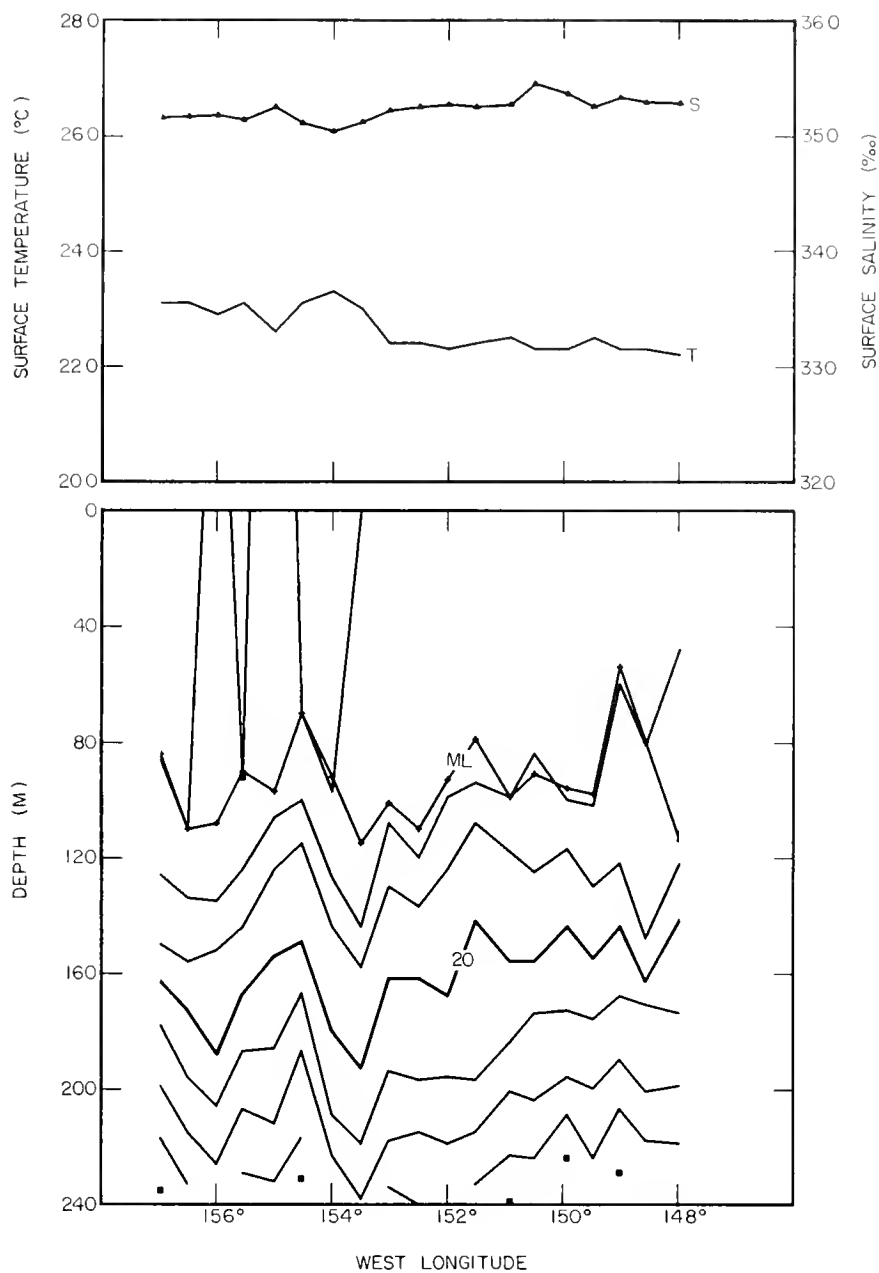


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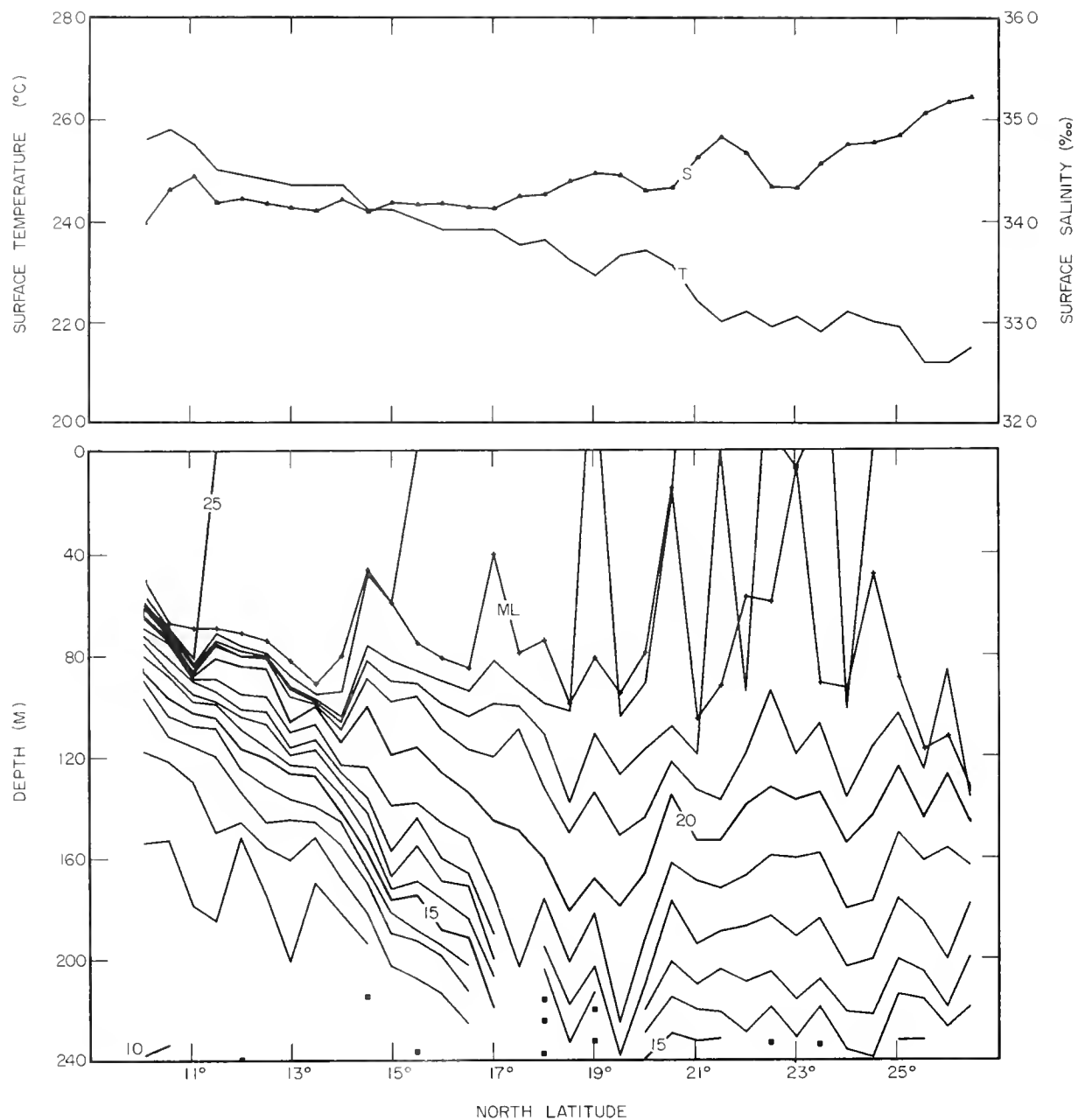


Figure 14.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 13 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

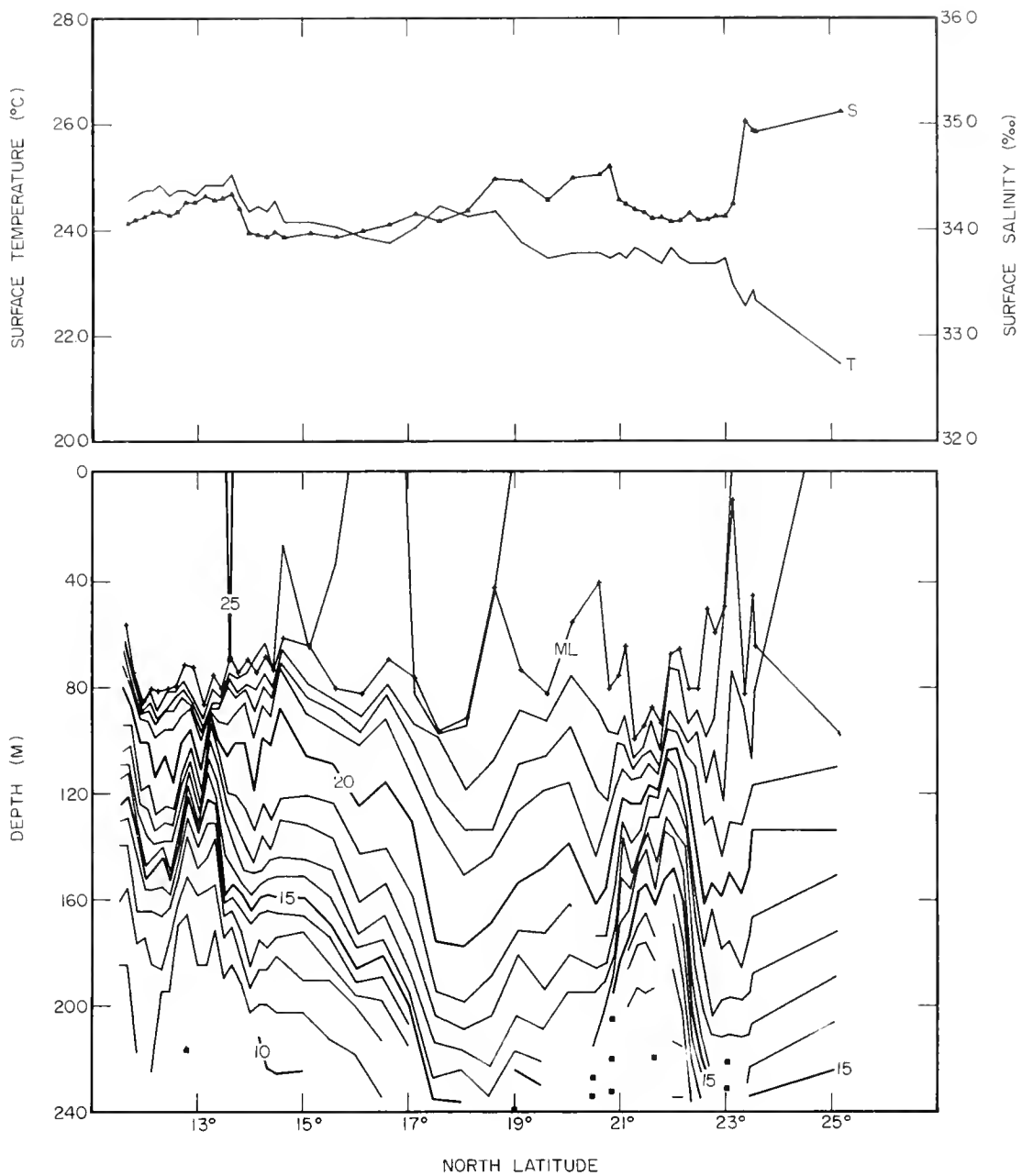


Figure 15.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Crowell cruise 13 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

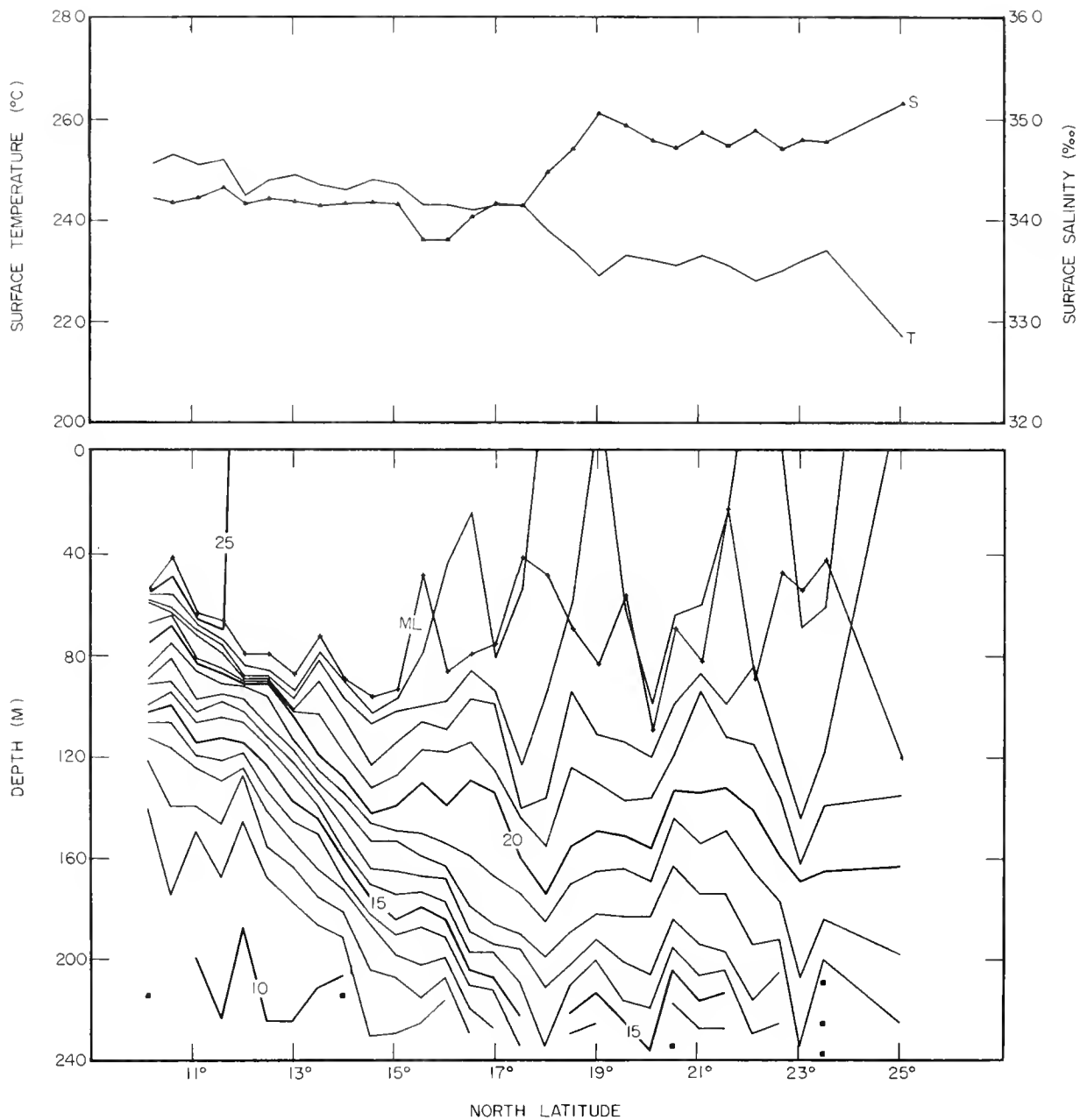


Figure 16.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 13 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

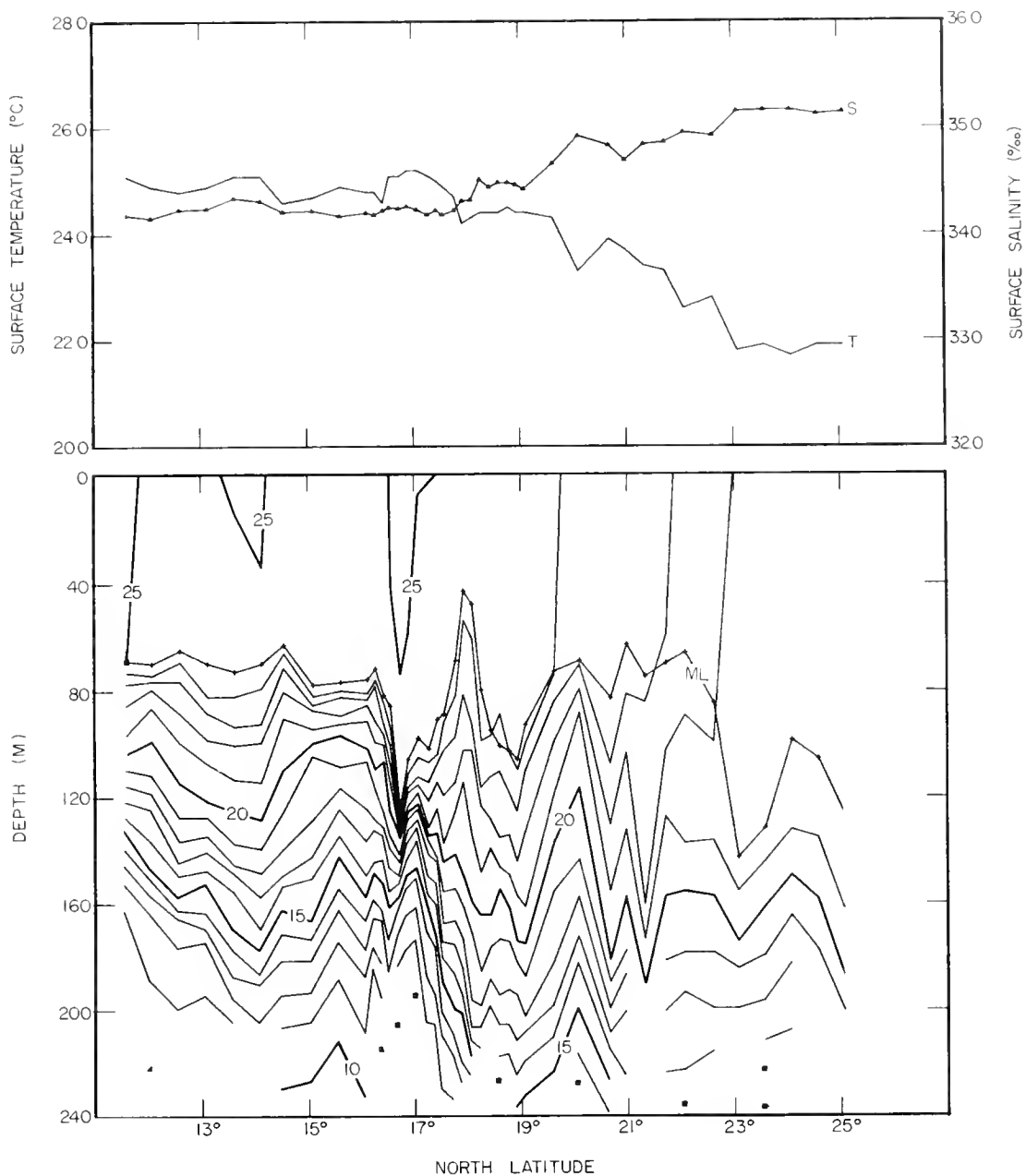


Figure 17.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 13 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

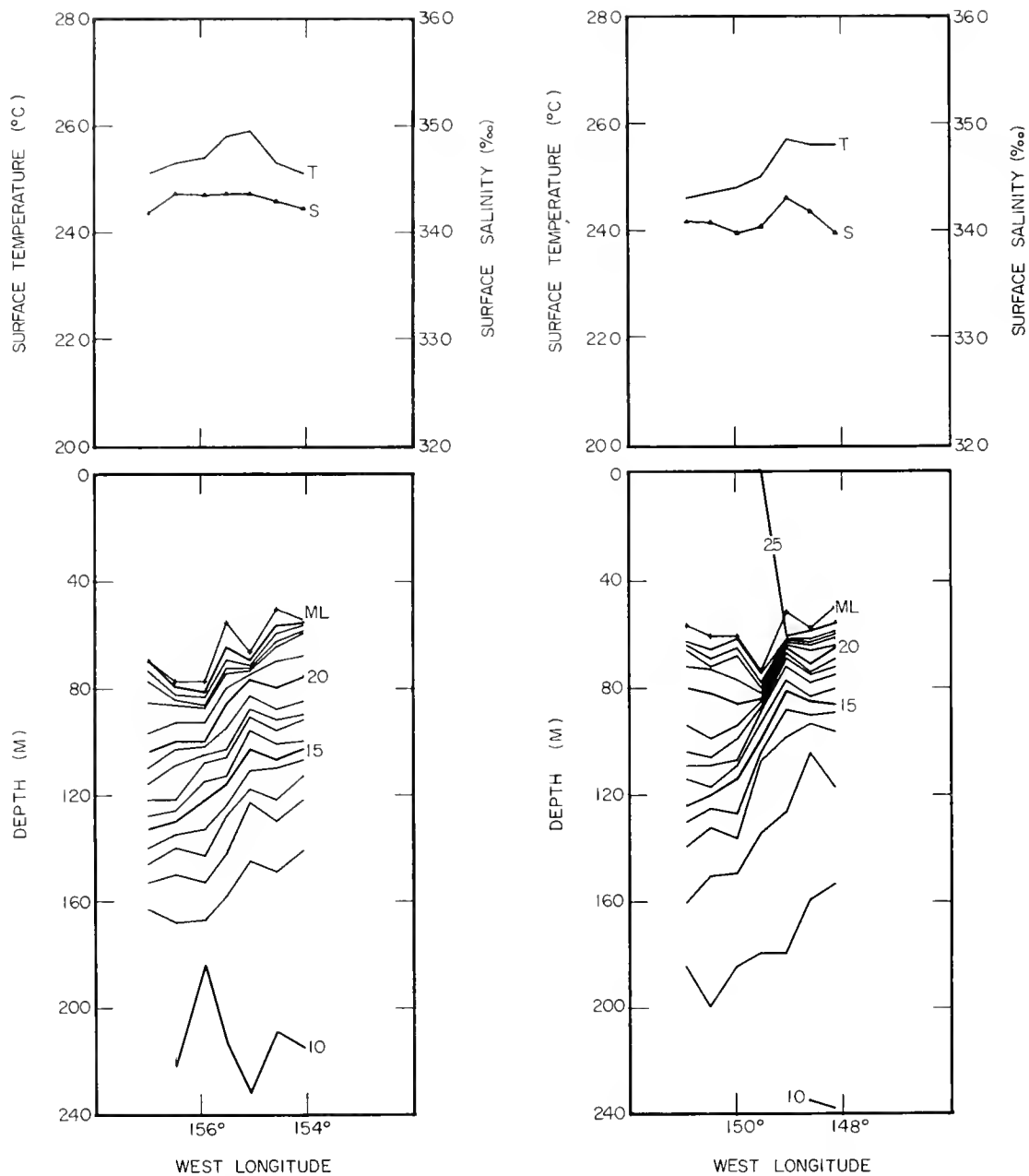


Figure 18.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 13 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

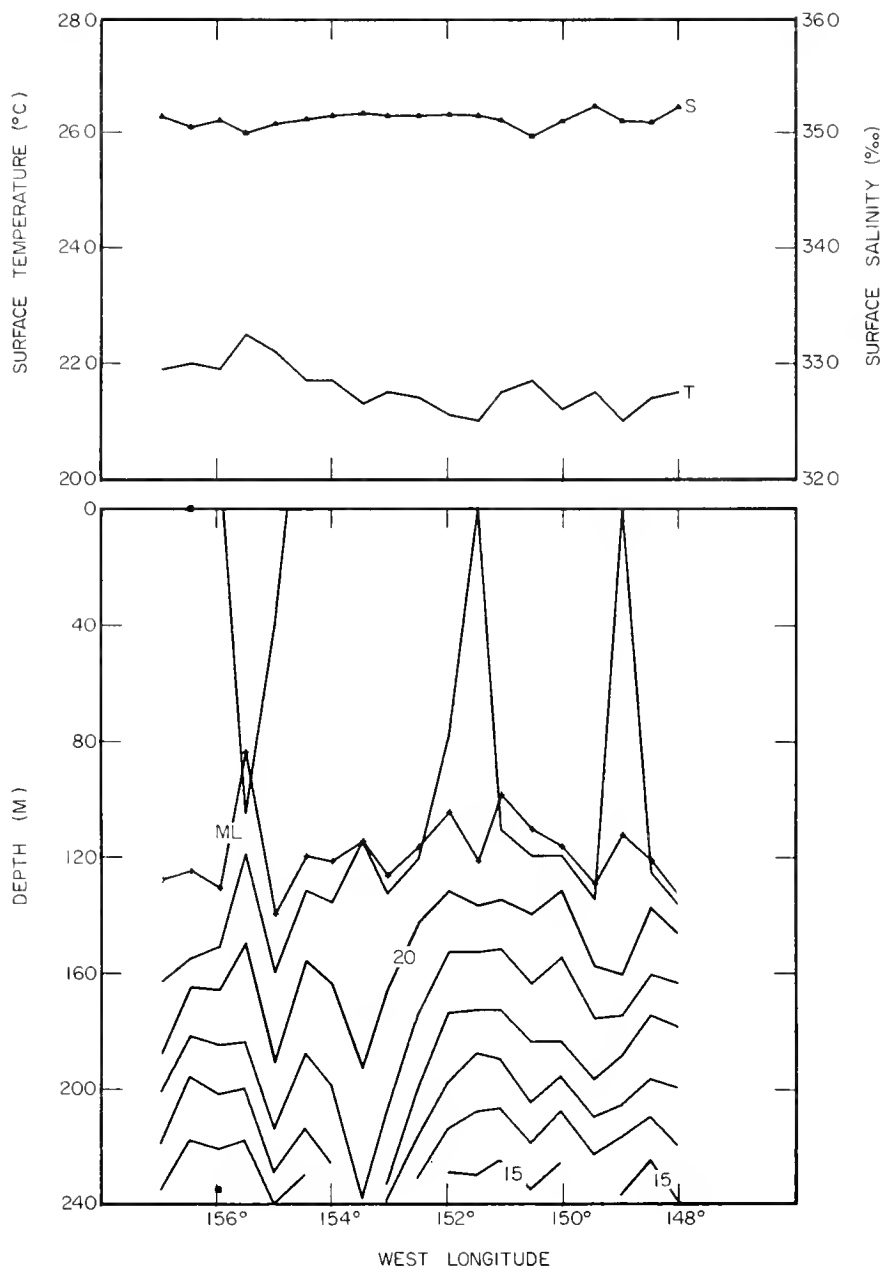


Figure 19.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 13 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

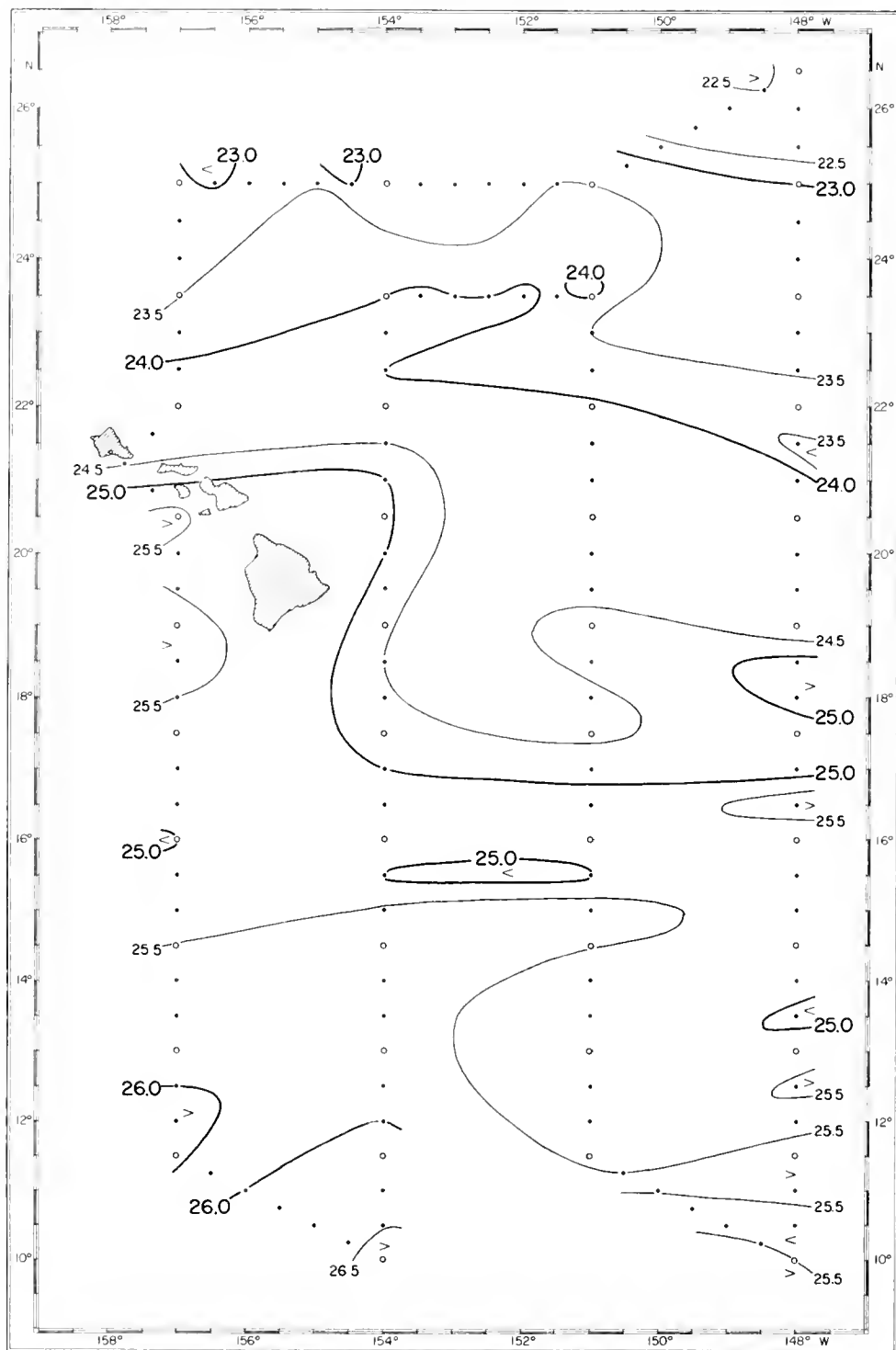


Figure 20.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 11.

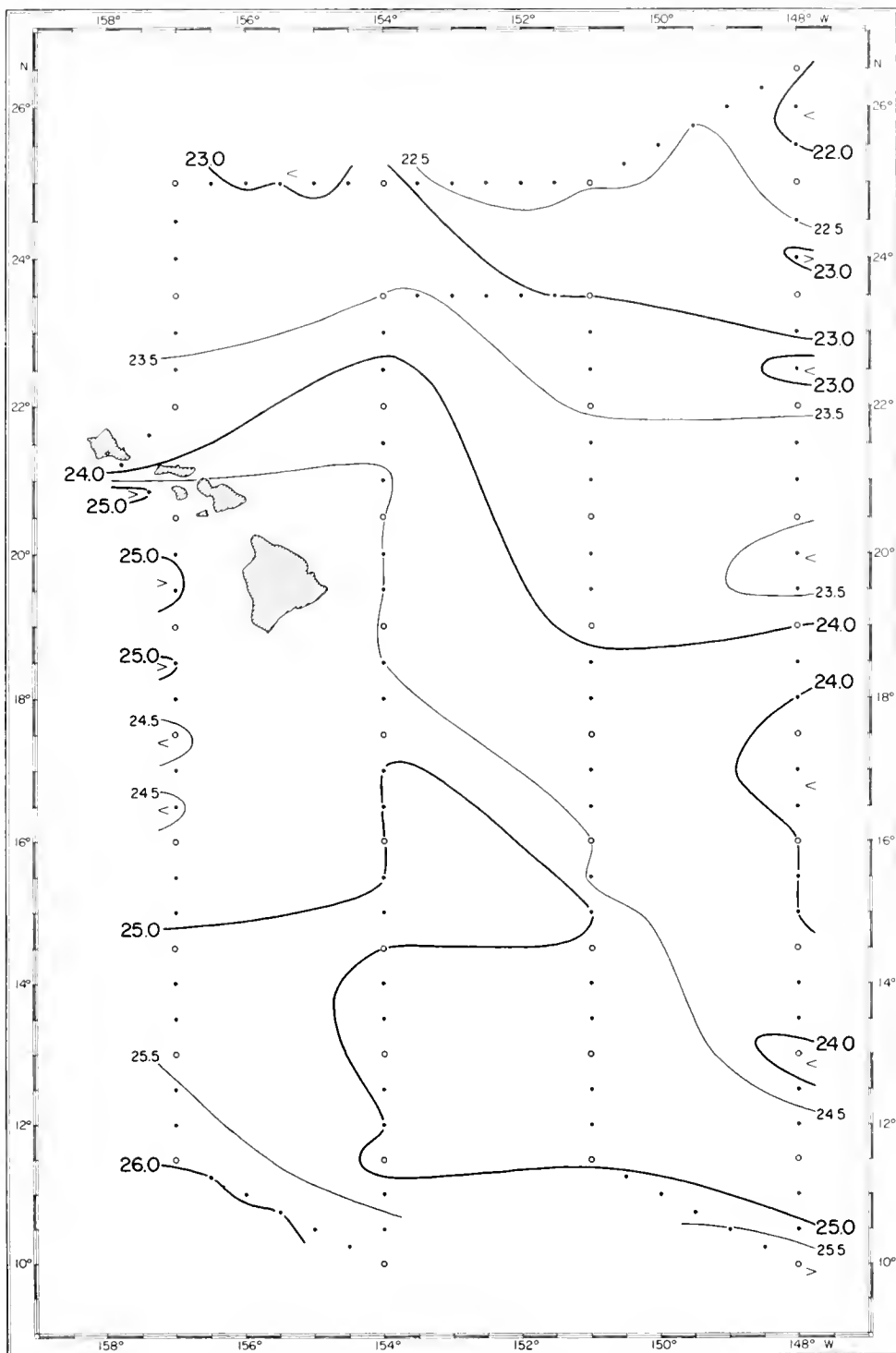


Figure 21.--Surface temperature distribution ($^{\circ}$ C.) based on intake temperature at each BT cast for Townsend Cromwell cruise 12.

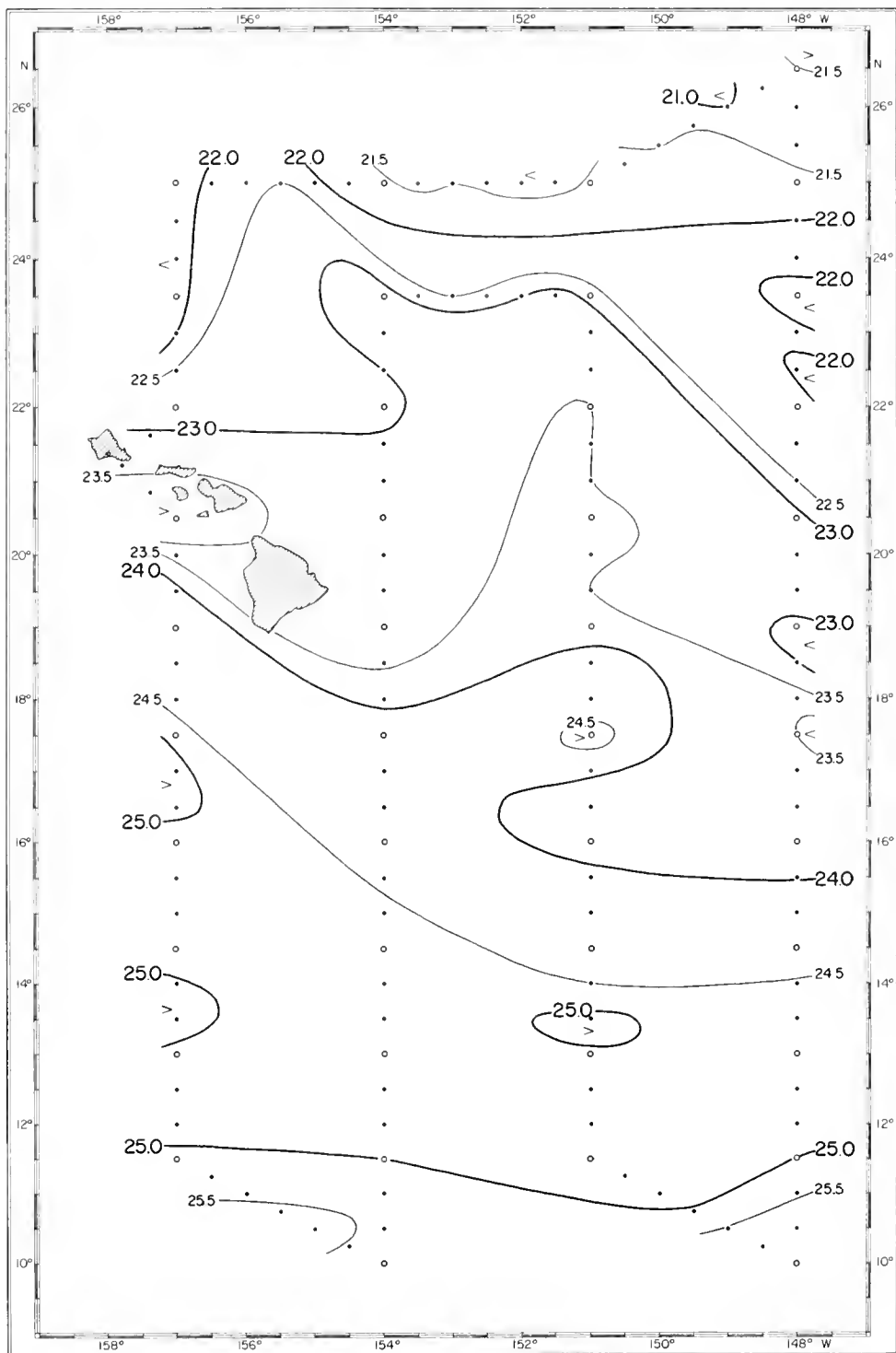


Figure 22.--Surface temperature distribution ($^{\circ}$ C.) based on intake temperature at each BT cast for Townsend Cromwell cruise 13.

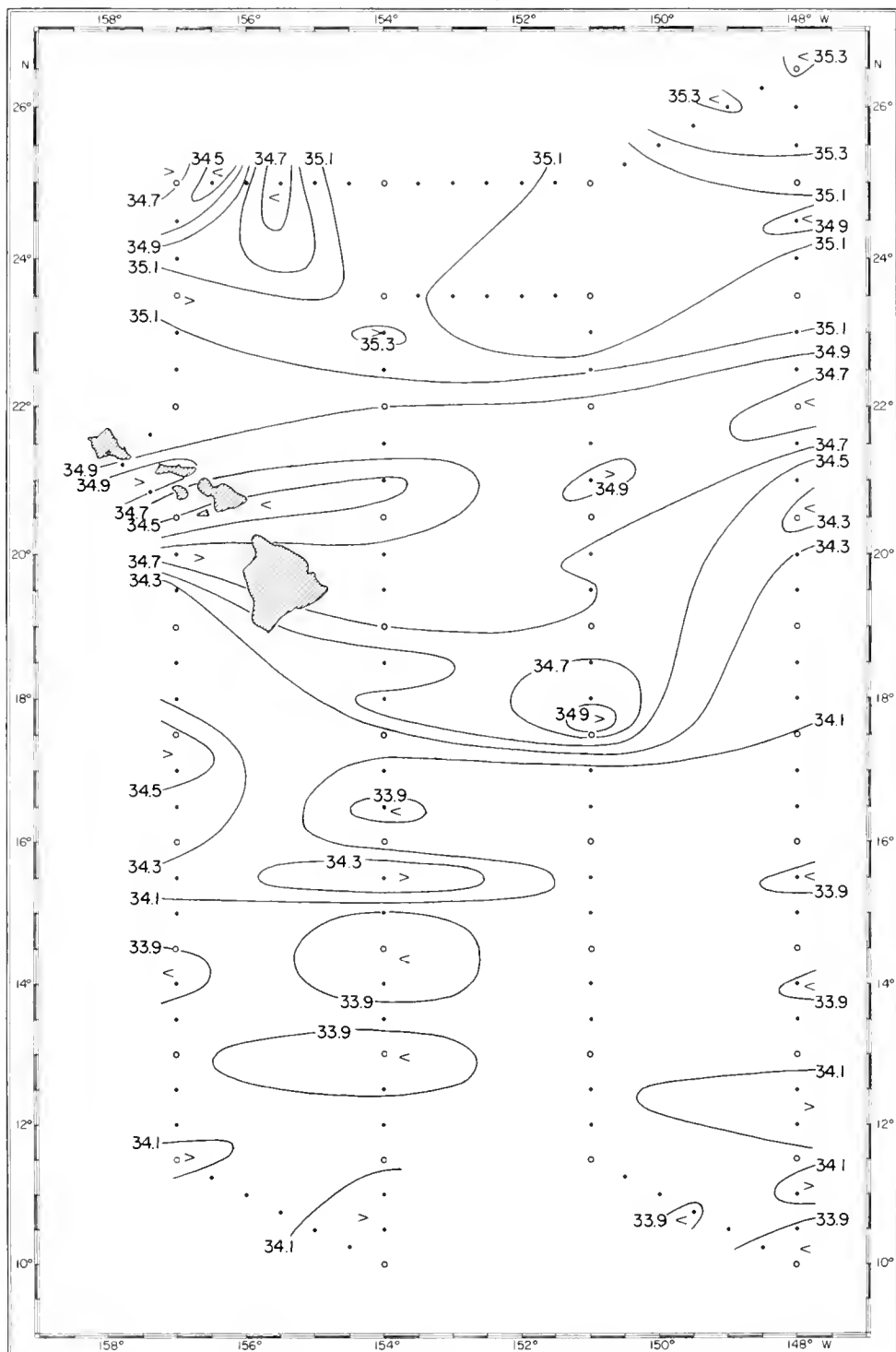


Figure 23.--Surface salinity distribution (‰) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 11.

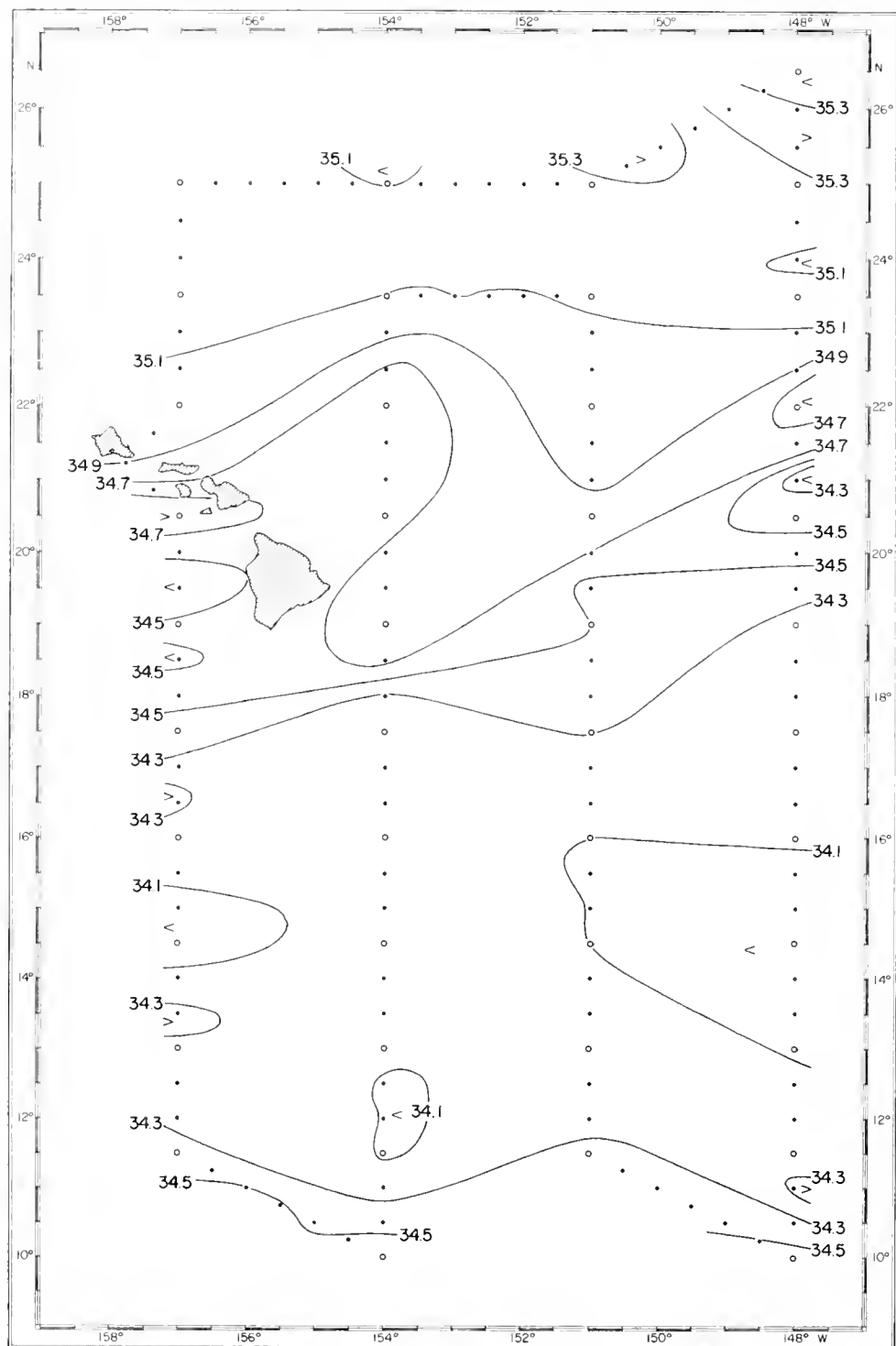


Figure 24.--Surface salinity distribution ($^{\circ}/_{\infty}$) from intake salinity samples at each BT cast for Townsend Cromwell cruise 12.

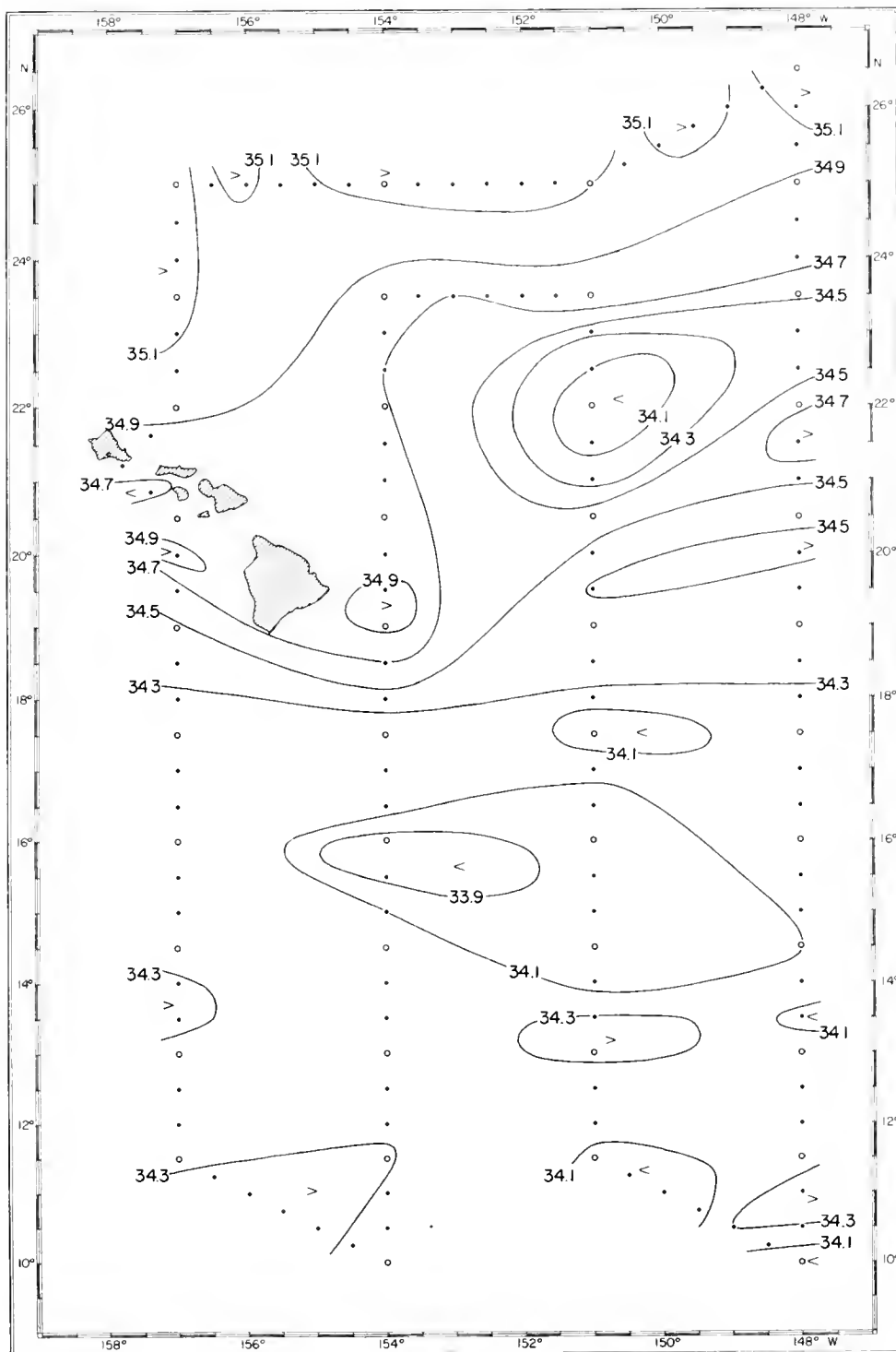


Figure 25.--Surface salinity distribution (‰) from intake salinity samples at each BT cast for Townsend Cromwell cruise 13.

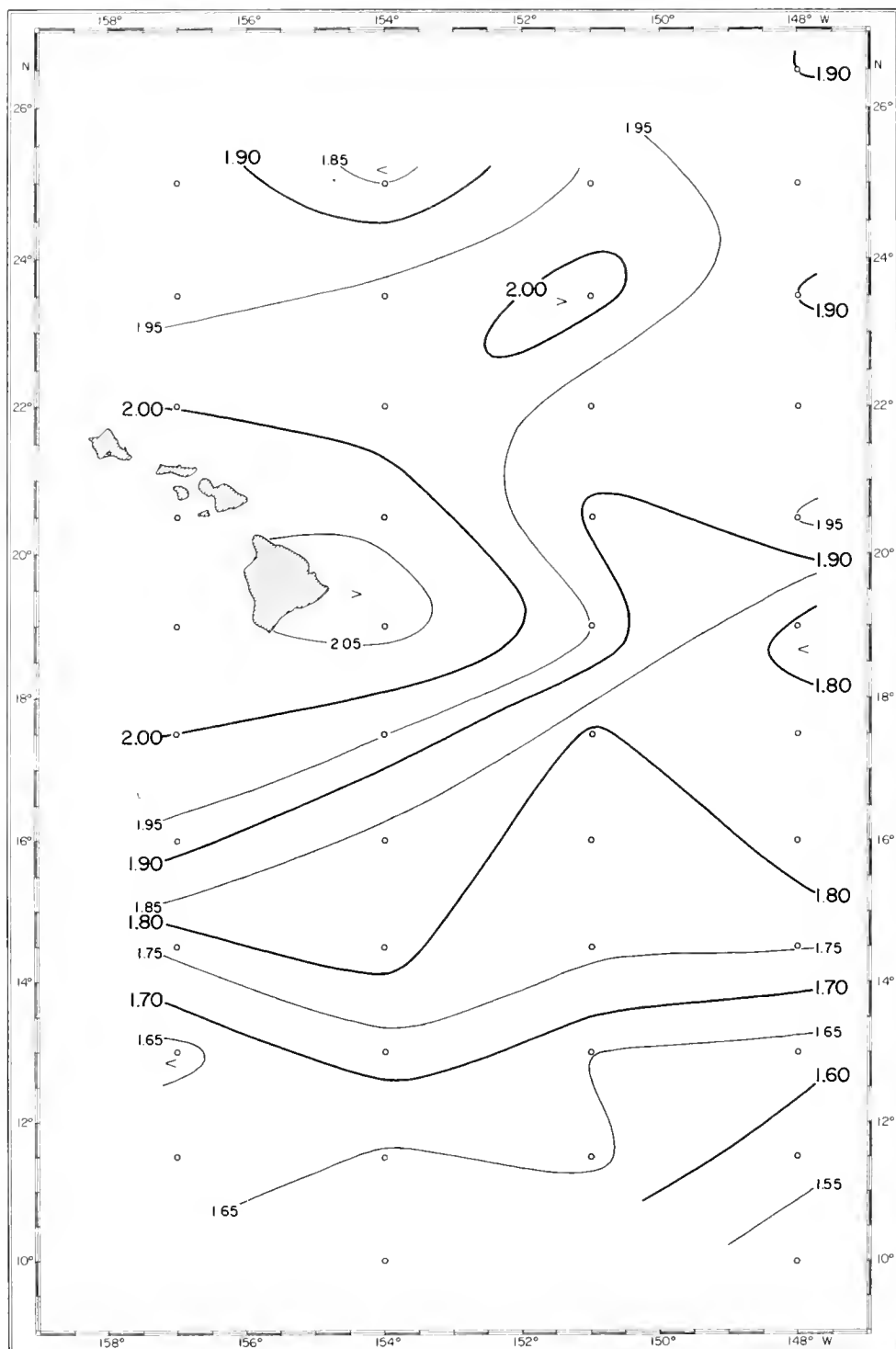


Figure 26.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 11.

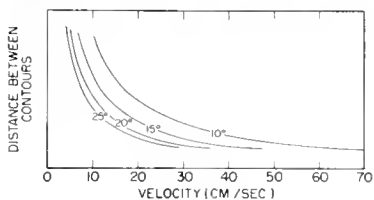
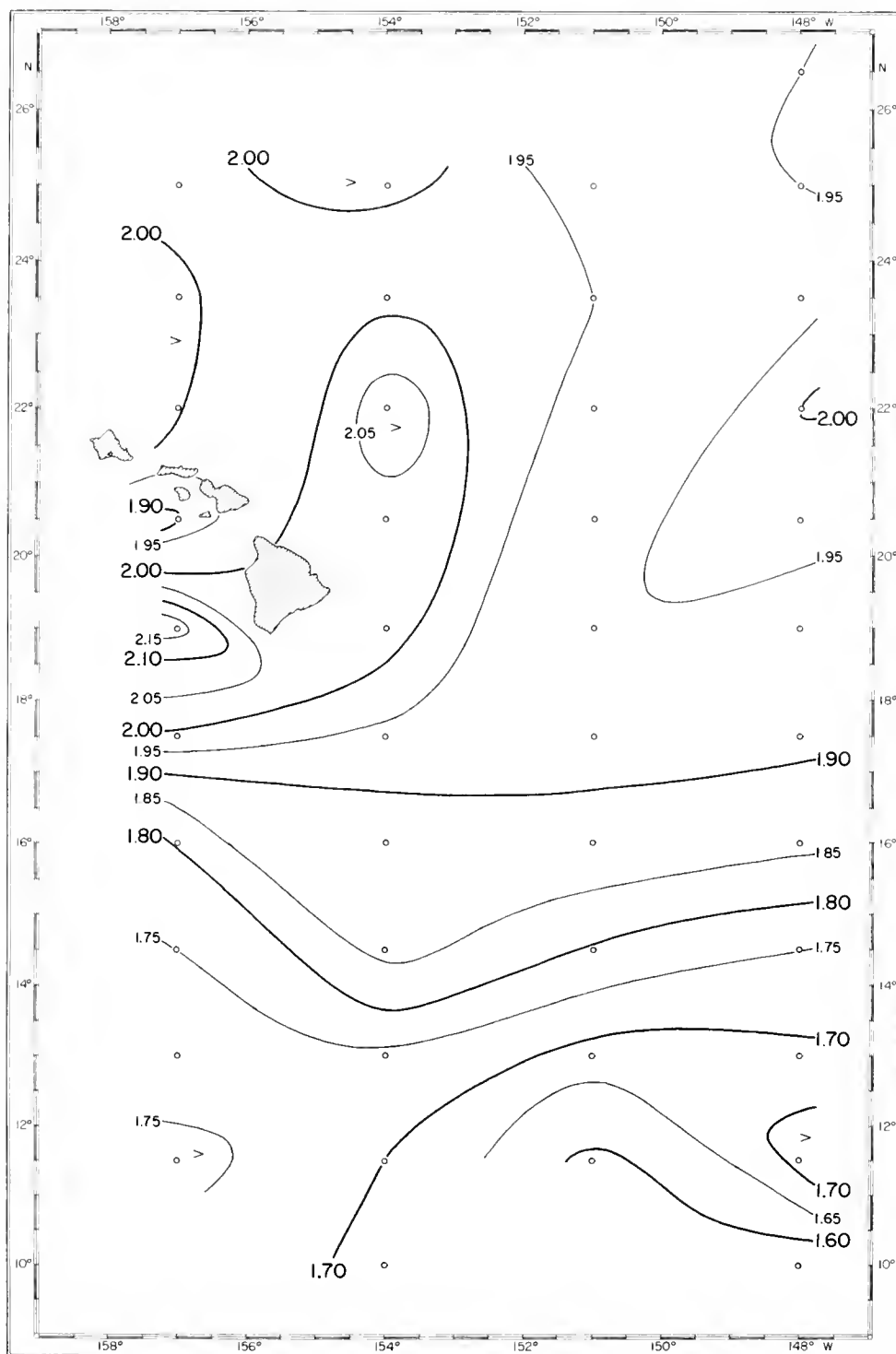


Figure 27.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 12.

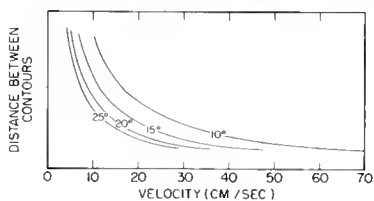
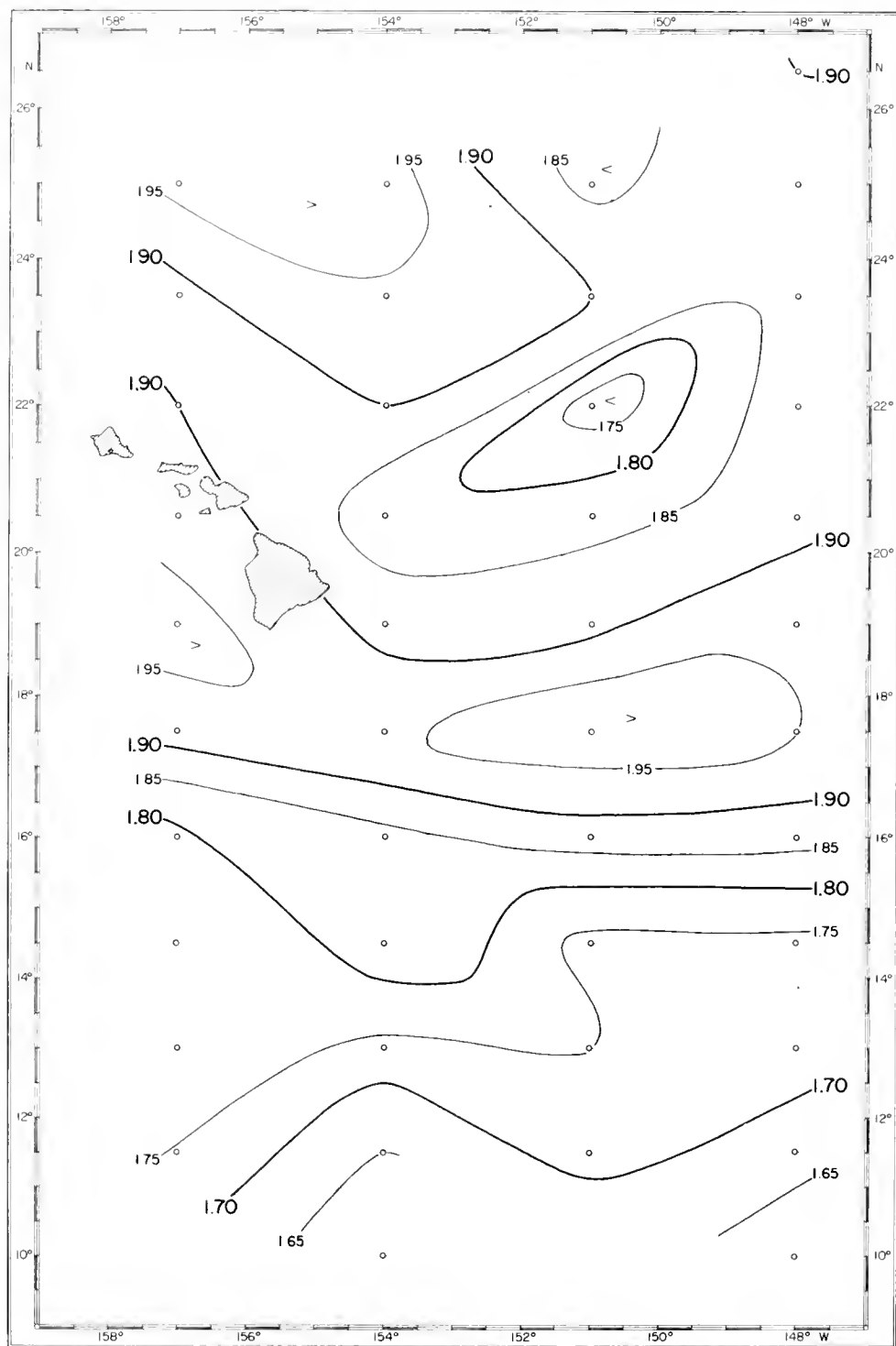


Figure 28.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 13.

TABLES

Information printed in the station heading has the following units or coding. Latitude and longitude are in degrees and minutes. Wet and dry bulb temperatures are in degrees Celsius. Wind speed is in knots. Barometric pressure is in tens and units of millibars (initial 9 or 10 omitted). Wind direction, weather, visibility, cloud type, and cloud cover are coded in the manner described by the International Ship Weather Code.

The observed data are presented in the following units: Depth in meters; temperature in degrees Celsius; salinity in grams per kilogram; oxygen in milliliters per liter; and phosphate ($\text{PO}_4\text{-P}$) in microgram-atoms per liter.

The derived data are listed with the following units: Density anomaly as $\sigma\text{-t}$; specific volume anomaly (δ) in 10^5 cubic centimeters per gram; and dynamic depth anomaly (dyn. dpth.) in dynamic meters.

Table 1.--Original and derived oceanographic data for Townsend Cromwell cruise 11

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL 11, STATION		1, 20-36N LAT, 157-13W LONG, DEC. 2, 1964, 0600 G.C.T.				2, 1964, 0600 G.C.T.						
DRY BULB 25.7		WET BULB 21.9		WIND SPEED 10, DIR. 12		BAR. 16		WEATHER 02		VIS. 7		
										CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
1.	25.67	34.37			22.68	517.8	0.	25.67	34.37	22.68	517.8	0.000
10.	25.66	34.36			22.68	518.6	10.	25.66	34.36	22.68	518.6	0.052
30.Δ	25.60	34.52			22.82	506.1	20.	25.64	34.42	22.73	514.3	0.104
50.Δ	25.48	34.82			23.08	481.8	30.	25.60	34.52	22.82	506.1	0.156
77.	25.42	34.93			23.11	480.4	50.	25.48	34.82	23.08	481.8	0.255
102.	24.38	34.82			23.41	451.9	75.	25.44	34.84	23.10	480.4	0.376
128.	22.58	35.08			24.13	388.0	100.	24.49	34.82	23.38	455.3	0.494
154.	21.42	35.08			24.46	353.8	150.	21.59	35.09	24.42	357.6	0.699
180.	19.78	35.04			24.87	315.5	200.	18.18	34.87	25.14	289.8	0.862
193.	18.84	34.94			25.03	300.0	250.	15.08	34.53	25.61	245.9	0.997
228.	15.84	34.60			25.50	256.5	300.	12.53	34.29	25.95	213.7	1.113
255.	14.96	34.52			25.63	244.2	400.	7.98	34.15	26.63	148.9	1.296
280.	14.02	34.42			25.75	232.7	500.	6.72	34.23	26.87	126.4	1.435
307.	11.97	34.24			26.02	206.7	600.	5.80	34.30	27.05	109.8	1.554
408.	7.81	34.16			26.66	145.5	700.	5.18	34.38	27.18	97.4	1.659
511.	6.68	34.24			26.89	125.1	800.	4.81	34.45	27.28	88.5	1.753
612.	5.69	34.31			27.07	108.0	1000.	4.18	34.51	27.40	78.6	1.922
814.	4.77	34.46			27.30	87.5						
1017.	4.14	34.52			27.41	77.3						

CROMWELL 11, STATION		2, 18-59N LAT, 156-59W LONG, DEC. 2, 1964, 1600 G.C.T.				2, 1964, 1600 G.C.T.						
DRY BULB 24.8		WET BULB 21.1		WIND SPEED 15, DIR. 15		BAR. 16		WEATHER 02		VIS. 7		
										CLOUD TYPE , COVER 3		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
1.	25.58	34.17			22.56	529.6	0.	25.58	34.17	22.56	529.5	0.000
11.	25.59	34.18			22.56	529.5	10.	25.59	34.18	22.56	529.5	0.053
30.Δ	25.56	34.18			22.57	529.4	20.	25.58	34.18	22.57	529.5	0.107
50.Δ	25.52	34.18			22.59	529.0	30.	25.56	34.18	22.57	529.4	0.160
75.Δ	25.50	34.18			22.59	529.4	50.	25.52	34.18	22.59	529.0	0.267
100.Δ	25.38	34.21			22.65	524.7	75.	25.50	34.18	22.59	529.4	0.400
150.	19.80	34.57			24.51	348.9	100.	25.38	34.21	22.65	524.7	0.533
192.	16.42	34.49			25.28	276.2	150.	19.80	34.57	24.51	348.9	0.753
218.	14.11	34.36			25.67	237.2	200.	15.73	34.45	25.41	263.9	0.907
247.	11.28	34.22			26.14	194.3	250.	11.12	34.22	26.16	191.7	1.022
275.	10.46	34.29			26.34	175.5	300.	10.45	34.47	26.48	162.6	1.111
297.	10.48	34.46			26.47	163.8	400.	8.91	34.52	26.77	135.9	1.262
391.	9.05	34.52			26.75	137.7	500.	7.48	34.43	26.92	122.2	1.192
490.	7.60	34.44			26.91	123.1	600.	6.42	34.36	27.02	113.6	1.511
611.	6.32	34.36			27.03	112.7	700.	5.53	34.39	27.15	100.9	1.620
787.	4.93	34.45			27.27	90.0	800.	4.88	34.45	27.28	89.1	1.716
986.	4.37	34.51			27.38	80.6	1000.	4.33	34.51	27.39	79.9	1.887
1180.	3.79	34.55			27.47	72.2	1200.	3.76	34.56	27.48	71.6	2.040
1473.	3.09	34.59			27.57	62.9						

CROMWELL 11, STATION		3, 17-32N LAT, 156-56W LONG, DEC. 3, 1964, 0100 G.C.T.				3, 1964, 0100 G.C.T.						
DRY BULB 25.2		WET BULB 21.2		WIND SPEED 22, DIR. 07		BAR. 13		WEATHER 02		VIS.		
										CLOUD TYPE 8, COVER 1		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
1.	25.28	34.44			22.85	501.3	0.	25.28	34.44	22.85	501.3	0.000
11.	25.25	34.44			22.86	500.9	10.	25.25	34.44	22.86	500.9	0.050
30.Δ	25.26	34.44			22.86	501.9	20.	25.25	34.44	22.86	501.2	0.101
50.Δ	25.26	34.44			22.86	502.7	30.	25.26	34.44	22.86	501.9	0.151
75.	25.26	34.67			23.03	487.1	50.	25.26	34.44	22.86	502.7	0.253
101.	23.11	34.81			23.78	416.9	75.	25.26	34.67	23.03	487.1	0.377
125.	22.42	35.08			24.18	379.5	100.	23.20	34.80	23.75	419.8	0.492
148.	20.95	35.12			24.62	338.4	150.	20.85	35.12	24.64	336.2	0.682
175.	19.60	35.02			24.90	312.3	200.	17.44	34.79	25.27	277.9	0.837
189.	18.83	34.97			25.06	297.4	250.	12.28	34.26	25.98	209.6	0.960
224.	14.17	34.37			25.68	237.9	300.	9.96	34.24	26.39	171.3	1.056
247.	12.45	34.26			25.95	212.8	400.	8.52	34.37	26.72	140.6	1.213
275.	11.09	34.29			26.23	186.4	500.	7.30	34.39	26.92	122.6	1.346
300.	9.96	34.24			26.39	171.3	600.	6.62	34.45	27.06	110.0	1.463
400.	8.52	34.37			26.72	140.6	700.	5.93	34.48	27.17	99.5	1.569
500.	7.30	34.39			26.92	122.6	800.	5.31	34.50	27.26	91.2	1.666
599.	6.63	34.45			27.06	110.1	1000.	4.55	34.53	27.38	81.4	1.840
796.	5.33	34.50			27.26	91.5	1200.	3.87	34.56	27.47	72.9	1.997
993.	4.58	34.53			27.37	81.8						
1166.	3.94	34.55			27.46	73.9						
1383.	3.40	34.58			27.53	66.8						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.23

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL DRY BULB 24.5		11, STATION WET BULB 21.8		4, 16-24 LAT, 157-00 LONG, DEC.		3, 1964, 1100 G.C.T.		BAR. 15		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PQ4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.21	34.45			22.88	498.5	0.	25.21	34.45	22.88	498.5	0.000			
11.	25.20	34.44			22.88	499.4	10.	25.20	34.44	22.88	499.3	0.050			
10.	25.20	34.44			22.88	500.1	20.	25.20	34.44	22.88	499.8	0.101			
50.	25.20	34.44			22.88	500.9	30.	25.20	34.44	22.88	500.1	0.151			
76.	24.73	34.70			23.26	465.3	50.	25.20	34.44	22.88	500.9	0.252			
101.	22.69	34.97			24.02	393.9	75.	24.77	34.75	23.24	467.4	0.374			
127.	21.27	34.95			24.40	358.3	100.	22.78	34.96	23.99	396.7	0.483			
152.	19.96	34.94			24.75	326.3	150.	20.08	34.94	24.72	329.0	0.665			
175.	17.79	34.76			25.16	287.3	200.	14.97	34.44	25.57	248.4	0.811			
192.	15.88	34.55			25.45	259.9	250.	11.39	34.38	26.24	184.6	0.920			
226.	12.52	34.24			25.92	215.0	300.	10.80	34.61	26.53	158.1	1.006			
250.	11.39	34.38			26.24	184.6	400.	8.27	34.42	26.80	133.0	1.153			
277.	10.83	34.55			26.48	162.8	500.	7.31	34.46	26.97	117.5	1.280			
306.	10.80	34.62			26.54	157.8	600.	6.44	34.46	27.09	106.7	1.393			
407.	8.05	34.40			26.82	131.3	700.	5.81	34.48	27.19	97.9	1.496			
508.	7.28	34.47			26.98	116.5	800.	5.36	34.52	27.27	90.7	1.592			
608.	6.37	34.46			27.10	105.9	1000.	4.55	34.54	27.38	80.9	1.765			
810.	5.32	34.52			27.28	90.0	1200.	3.83	34.56	27.47	72.2	1.920			
1015.	4.50	34.54			27.39	80.3	1500.	3.01	34.61	27.59	60.8	2.123			
1215.	3.78	34.56			27.48	71.6									
1516.	2.97	34.61			27.60	60.2									

CROMWELL DRY BULB 24.9		11, STATION WET BULB 21.9		5, 14-31°N LAT, 157-10°W LONG, DEC.		3, 1964, 2000 G.C.T.		BAR. 12		WEATHER 03	VIS. 7	CLOUD TYPE 8, COVER 9	
DEPTH	TEMP.	SAL.	CXY.	PQ4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.62	34.08			22.49	537.2	0.	25.62	34.08	22.49	537.2	0.000	
9.	25.62	34.04			22.49	536.8	10.	25.62	34.09	22.49	536.8	0.054	
20.	25.62	34.09			22.49	537.3	20.	25.62	34.09	22.49	537.3	0.108	
30.	25.62	34.09			22.49	537.6	30.	25.62	34.09	22.49	537.6	0.162	
50.	25.35	34.49			22.87	501.7	50.	25.35	34.49	22.87	501.7	0.267	
75.	23.26	34.96			23.85	409.3	75.	23.26	34.96	23.85	409.3	0.382	
100.	21.41	35.04			24.43	354.5	100.	21.41	35.04	24.43	354.5	0.478	
125.	19.55	34.95			24.86	314.3	150.	16.02	34.50	25.38	265.4	0.634	
151.	15.87	34.48			25.40	263.5	200.	11.62	34.32	26.15	191.8	0.749	
175.	13.51	34.33			25.79	226.2	250.	9.24	34.25	26.51	158.0	0.838	
190.	12.45	34.35			26.02	204.8	300.	8.27	34.30	26.70	140.1	0.913	
224.	9.92	34.24			26.39	169.0	400.	8.10	34.54	26.92	121.7	1.045	
251.	9.23	34.25			26.51	157.7	500.	7.11	34.52	27.05	110.2	1.162	
276.	8.76	34.29			26.62	147.4	600.	6.30	34.51	27.15	101.2	1.269	
302.	8.23	34.30			26.71	139.6	700.	5.61	34.52	27.24	92.8	1.367	
401.	5.10	34.54			26.92	121.6	800.	5.03	34.53	27.32	85.4	1.457	
502.	7.09	34.52			27.05	110.0	1000.	4.21	34.56	27.44	75.0	1.619	
603.	6.28	34.51			27.15	100.9	1200.	3.57	34.58	27.52	67.5	1.763	
803.	5.01	34.53			27.32	85.2							
1003.	4.20	34.56			27.44	74.9							
1203.	3.56	34.58			27.52	67.4							
1472.	2.87	34.61			27.61	58.7							

CROMWELL DRY BULB 25.3		11, STATION WET BULB 23.2		6, 12-56°N LAT, 157-00°W LONG, DEC.		4, 1964, 0500 G.C.T.		BAR. 10		WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CXY.	PQ4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.93	33.90			22.25	559.3	0.	25.93	33.90	22.25	559.3	0.000	
10.	25.95	33.90			22.24	560.3	10.	25.95	33.90	22.24	560.3	0.056	
20.	25.95	33.90			22.24	560.7	20.	25.95	33.90	22.24	560.7	0.113	
30.	25.95	33.90			22.24	561.1	30.	25.95	33.90	22.24	561.1	0.169	
50.	23.26	34.47			23.48	443.7	50.	23.26	34.47	23.48	443.7	0.271	
75.	20.14	34.84			24.62	335.3	75.	20.14	34.84	24.62	335.3	0.369	
102.	17.08	34.64			25.24	277.3	100.	17.30	34.67	25.21	280.3	0.446	
126.	14.39	34.40			25.66	237.4	150.	12.20	34.29	26.02	203.2	0.568	
149.	12.29	34.30			26.01	204.4	200.	10.42	34.49	26.50	158.4	0.659	
174.	10.58	34.25			26.29	178.3	250.	9.91	34.62	26.69	141.7	0.735	
189.	10.50	34.41			26.42	165.4	300.	9.05	34.56	26.79	132.9	0.804	
223.	10.22	34.59			26.61	148.2	400.	8.07	34.59	26.96	117.5	0.930	
248.	9.97	34.62			26.68	147.4	500.	7.06	34.55	27.08	107.5	1.044	
272.	9.30	34.57			26.75	135.6	600.	6.18	34.53	27.18	98.1	1.148	
299.	9.06	34.56			26.78	133.1	700.	5.57	34.53	27.26	91.2	1.244	
396.	8.11	34.59			26.96	118.0	800.	5.11	34.54	27.32	85.6	1.333	
493.	7.13	34.55			27.07	108.2	1000.	4.28	34.56	27.43	75.6	1.496	
587.	6.27	34.53			27.17	99.1	1200.	3.60	34.59	27.52	67.1	1.641	
781.	5.20	34.54			27.31	86.7							
974.	4.38	34.56			27.42	76.9							
1166.	3.71	34.59			27.51	68.1							
1420.	3.01	34.61			27.59	60.1							

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 11, STATION 7, 11-30N LAT, 156-59W LONG, DEC. 4, 1964, 1400 G.C.T.					4, 1964, 1400 G.C.T.					4, 1964, 1400 G.C.T.				
DRY BULB 25.5	WET BULB 23.0	WIND SPEED 14, DIR. 09	BAR. 09	WEATHER 02	VIS. 7	CLOUD TYPE	COVER							
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CHL.	PO4-P	DEPTH
0.	26.24	34.12			22.32	552.7	0.	26.24	34.12	22.32	552.7			0.000
10.	26.25	34.11			22.31	554.1	10.	26.25	34.11	22.31	554.1			0.056
30.	26.26	34.12			22.31	554.5	20.	26.26	34.11	22.31	554.5			0.112
50.	26.27	34.13			22.32	554.9	30.	26.26	34.12	22.31	554.5			0.167
75.	26.26	34.18			24.54	342.7	50.	26.27	34.13	22.32	554.9			0.279
100.	15.34	34.50			25.53	249.2	75.	20.26	34.78	24.54	342.7			0.392
125.	12.91	34.39			25.96	208.9	100.	15.34	34.50	25.53	249.2			0.467
151.	11.73	34.56			26.32	175.1	150.	11.76	34.55	26.31	176.2			0.574
176.	11.01	34.64			26.51	157.0	200.	10.73	34.71	26.62	147.4			0.656
191.	10.86	34.70			26.59	150.3	250.	10.15	34.71	26.72	138.8			0.728
224.	10.36	34.71			26.68	142.1	300.	9.53	34.69	26.81	131.1			0.796
249.	10.16	34.71			26.72	138.9	400.	8.58	34.63	26.92	122.2			0.924
276.	9.87	34.70			26.76	135.4	500.	7.60	34.58	27.02	112.9			1.042
301.	9.52	34.69			26.81	130.9	600.	6.85	34.56	27.11	105.1			1.152
401.	8.57	34.63			26.92	122.2	700.	6.16	34.55	27.20	97.6			1.255
501.	7.59	34.58			27.03	112.8	800.	5.57	34.55	27.27	91.0			1.350
601.	6.84	34.56			27.12	105.0	1000.	4.74	34.56	27.38	81.7			1.525
801.	5.56	34.55			27.27	90.9	1200.	3.92	34.58	27.48	71.7			1.680
1001.	4.74	34.56			27.36	81.7								
1200.	3.92	34.58			27.48	71.7								
1480.	3.14	34.61			27.58	62.1								

CROMWELL 11, STATION 7A, 10-0N LAT, 154-0W LONG, DEC. 5, 1964, 1000 G.C.T.					5, 1964, 1000 G.C.T.					5, 1964, 1000 G.C.T.				
DRY BULB 25.1	WET BULB 23.4	WIND SPEED 16, DIR. 14	BAR. 12	WEATHER 01	VIS. 6	CLOUD TYPE	COVER 6							
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CHL.	PO4-P	DEPTH
0.	26.79	34.15			22.17	567.1	0.	26.79	34.15	22.17	567.1			0.000
9.	26.79	34.15	5.25		22.17	567.5	10.	26.79	34.15	22.17	567.5			0.057
20.	26.79	34.15			22.17	567.9	20.	26.79	34.15	22.17	567.9			0.114
30.	26.79	34.15			22.17	568.3	30.	26.79	34.15	22.17	568.3			0.172
48.	22.63	34.79	5.26		23.90	403.2	50.	22.31	34.82	24.01	392.6			0.268
61.	20.44	34.84	5.15		24.54	342.4	75.	16.83	34.60	25.27	273.5			0.352
74.	17.05	34.62	4.13		25.23	277.2	100.	12.98	34.39	25.94	209.6			0.413
100.	12.98	34.39	2.48		26.35	171.7	150.	11.42	34.73	26.51	157.0			0.505
124.	11.86	34.63	0.57		26.51	157.0	200.	10.14	34.72	26.73	137.9			0.653
150.	11.42	34.73	0.24		26.61	148.0	300.	9.81	34.71	26.78	134.3			0.721
174.	10.92	34.74	0.28		26.63	146.0	400.	9.02	34.67	26.88	126.5			0.853
189.	10.78	34.74	0.49		26.68	141.7	500.	8.14	34.61	26.97	118.5			0.976
222.	10.49	34.74	0.44		26.73	138.0	600.	7.05	34.57	27.10	107.0			1.090
249.	10.15	34.72	0.48		26.76	135.8	700.	6.20	34.56	27.20	97.5			1.194
274.	9.94	34.71	0.54		26.78	134.3	800.	5.54	34.56	27.28	89.9			1.289
299.	9.82	34.71	0.49		26.87	126.6	1000.	4.59	34.57	27.40	79.0			1.459
398.	9.04	34.67	0.51		26.98	117.9	1200.	3.83	34.59	27.50	70.0			1.610
507.	8.07	34.61	0.28		27.10	106.3								
606.	6.98	34.57	0.43		27.28	90.0								
799.	5.55	34.56	0.76		27.40	79.0								
999.	4.59	34.57	1.00		27.50	70.0								
1198.	3.84	34.59	1.41		27.60	60.5								
1499.	3.06	34.62	1.84											

CROMWELL 11, STATION 8, 11-31N LAT, 154-0W LONG, DEC. 5, 1964, 1900 G.C.T.					5, 1964, 1900 G.C.T.					5, 1964, 1900 G.C.T.				
DRY BULB 25.9	WET BULB 23.2	WIND SPEED 18, DIR. 06	BAR. 14	WEATHER 02	VIS. 7	CLOUD TYPE	COVER 4							
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CHL.	PO4-P	DEPTH
0.	26.18	34.09	5.42		22.31	553.1	0.	26.18	34.09	22.31	553.1			0.000
20.	26.18	34.09			22.31	553.9	10.	26.18	34.09	22.31	553.5			0.056
30.	26.18	34.09			22.31	554.3	20.	26.18	34.09	22.31	553.9			0.111
49.	23.33	34.70	6.10		23.63	429.0	30.	26.18	34.09	22.31	554.3			0.167
61.	21.87	34.78	5.70		24.11	384.0	50.	23.21	34.71	23.68	424.8			0.266
75.	19.50	34.72	5.48		24.70	328.0	75.	19.50	34.72	24.70	328.0			0.361
100.	15.25	34.51	3.74		25.56	246.5	100.	15.25	34.51	25.56	246.5			0.433
126.	12.60	34.36	3.21		26.00	205.2	150.	11.68	34.48	26.27	180.0			0.541
148.	11.69	34.47	1.96		26.26	180.9	200.	10.39	34.60	26.59	149.6			0.624
175.	11.39	34.57	1.09		26.39	168.8	250.	10.06	34.68	26.71	139.5			0.697
189.	10.58	34.57	1.04		26.54	155.0	300.	9.50	34.66	26.79	132.6			0.765
224.	10.38	34.68	0.40		26.66	144.3	400.	8.45	34.61	26.92	121.7			0.894
248.	10.09	34.68	0.34		26.71	139.9	500.	7.77	34.58	27.00	115.5			1.013
275.	9.76	34.68	0.38		26.76	135.0	600.	6.82	34.55	27.11	105.4			1.125
302.	9.48	34.66	0.45		26.79	132.5	700.	6.08	34.54	27.20	97.0			1.227
401.	8.44	34.61	0.60		26.92	121.6	800.	5.48	34.55	27.28	89.8			1.322
502.	7.76	34.58	0.70		27.00	115.3	1000.	4.46	34.57	27.42	77.4			1.491
601.	6.81	34.55	0.76		27.11	105.3	1200.	3.74	34.59	27.51	68.8			1.639
801.	5.47	34.55	0.92		27.28	89.7	1500.	2.98	34.62	27.61	59.5			1.834
1002.	4.45	34.57	0.74		27.42	77.3								
1201.	3.74	34.59	1.57		27.51	68.8								
1500.	2.98	34.62	1.96		27.61	59.5								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.10

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 11, STATION 9, 13- ON LAT, 154- 1W LONG, DEC. 6, 1964, 0500 G.C.T.												
DRY BULB 25.6		WET BULB 22.9		WIND SPEED 16, DIR. 05		BAR. 15		WEATHER 03		VIS. 7 CLOUD TYPE B, COVER 4		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DEPTH.
1.	25.70	33.88	5.02		22.30	554.0	0.	25.70	33.88	22.30	554.0	0.000
11.	25.75	33.88	5.06		22.29	555.9	10.	25.75	33.88	22.29	556.1	0.056
20.	25.72	33.95			22.35	550.3	20.	25.72	33.95	22.35	550.3	0.112
30.Δ	25.64	34.00			22.41	544.7	30.	25.64	34.00	22.41	544.7	0.167
51.	24.13	34.73	5.51		23.42	449.3	50.	24.23	34.69	23.36	454.9	0.267
76.	21.35	34.92	5.29		24.36	360.7	75.	21.46	34.92	24.33	363.5	0.371
101.	19.49	34.94	4.64		24.87	312.7	100.	19.56	34.94	24.85	314.3	0.456
125.	16.83	34.70	4.42		25.34	268.0	150.	13.75	34.37	25.77	227.3	0.592
152.	13.52	34.35	4.44		25.86	224.3	200.	10.94	34.54	26.45	163.7	0.691
176.	11.50	34.33	2.26		26.18	188.5	250.	10.64	34.68	26.61	149.2	0.770
190.	11.01	34.46	1.19		26.37	170.6	300.	9.76	34.63	26.72	139.2	0.843
224.	10.99	34.67	0.32		26.54	155.6	400.	8.63	34.60	26.88	125.3	0.976
251.	10.62	34.68	0.26		26.61	149.0	500.	7.50	34.56	27.02	112.9	1.096
277.	10.29	34.66	0.26		26.66	145.4	600.	6.68	34.55	27.13	103.5	1.205
301.	9.74	34.63	0.36		26.73	138.9	700.	5.95	34.54	27.22	95.4	1.306
401.	8.62	34.60	0.47		26.79	125.2	800.	5.32	34.54	27.29	88.4	1.499
503.	7.47	34.56	0.50		27.03	112.5	1000.	4.46	34.57	27.42	77.5	1.567
603.	6.66	34.55	0.57		27.13	103.2	1200.	3.80	34.59	27.50	69.6	1.716
805.	5.29	34.54	0.64		27.30	88.1						
1007.	4.44	34.57	1.06		27.42	77.2						
1208.	3.78	34.59	1.50		27.50	69.3						
1455.	3.02	34.60	1.73		27.59	61.2						

CROMWELL 11, STATION 10, 14-29N LAT, 154- 2W LONG, DEC. 6, 1964, 1700 G.C.T.													
DRY BULB 24.7		WET BULB 22.1		WIND SPEED 18, DIR. 06		BAR. 13		WEATHER 15		VIS. 7		CLOUD TYPE B, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DEPTH.	
1.	25.70	33.83	5.46		22.27	557.6	0.	25.70	33.83	22.27	557.6	0.000	
11.	25.74	33.82	5.42		22.25	559.9	10.	25.74	33.82	22.25	559.7	0.056	
30.Δ	25.74	33.82			22.25	560.6	20.	25.75	33.82	22.24	560.5	0.113	
51.	25.73	33.82	5.40		22.25	561.1	30.	25.74	33.82	22.25	560.6	0.169	
75.	23.71	33.72	5.95		22.78	511.2	50.	25.75	33.82	22.24	561.6	0.282	
101.	21.85	34.73	5.80		24.07	388.5	75.	23.71	33.72	22.78	511.2	0.417	
127.	20.24	34.85	5.61		24.60	339.0	100.	21.92	34.69	24.03	393.3	0.531	
151.	16.40	34.56	4.42		25.34	269.4	150.	16.57	34.57	25.31	272.0	0.699	
175.	14.24	34.40	3.97		25.69	235.7	200.	11.47	34.24	26.12	195.3	0.817	
189.	12.22	34.24	3.70		25.99	208.5	250.	10.04	34.33	26.44	164.9	0.907	
225.	10.79	34.34	2.10		26.32	176.4	300.	8.62	34.33	26.68	142.9	0.985	
250.	10.04	34.33	2.25		26.44	164.9	400.	7.82	34.50	26.93	120.4	1.118	
276.	8.83	34.24	2.42		26.57	152.6	500.	6.91	34.50	27.06	108.8	1.233	
301.	8.62	34.34	1.49		26.68	142.5	600.	6.12	34.52	27.18	98.1	1.338	
402.	7.80	34.50	0.62		26.93	120.1	700.	5.49	34.53	27.26	90.5	1.433	
503.	6.88	34.50	0.64		27.06	108.5	800.	4.98	34.53	27.33	84.9	1.522	
603.	6.10	34.52	0.74		27.18	97.8	1000.	4.21	34.56	27.44	75.1	1.684	
803.	4.97	34.53	0.81		27.33	84.7	1200.	3.57	34.58	27.52	67.5	1.828	
1008.	4.18	34.56	1.10		27.44	74.7	1500.	2.86	34.62	27.62	58.2	2.019	
1208.	3.55	34.58	1.42		27.52	67.3							
1508.	2.85	34.62	1.96		27.62	58.0							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.18

CROMWELL 11, STATION 11, 15-57N LAT, 153-58W LONG, DEC. 7, 1964, 0300 G.C.T.														
DRY BULB 25.5		WET BULB 22.1		WIND SPEED 14, DIR. 05		BAR. 14		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 3		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CYN. DPTH.		
0.	25.27	33.97	5.52		22.50	534.9	0.	25.27	33.97	22.50	534.9	0.000		
10.	25.27	33.97	5.60		22.50	535.3	10.	25.27	33.97	22.50	535.3	0.054		
30.Δ	25.14	34.66			23.06	482.6	20.	25.22	34.29	22.76	510.8	0.107		
50.	25.00	34.77	5.52		23.19	471.4	30.	25.14	34.66	23.06	482.6	0.157		
75.	23.54	34.98	5.55		23.78	415.6	50.	25.00	34.77	23.19	471.4	0.253		
99.	21.81	35.04	5.80		24.32	365.0	75.	23.54	34.98	23.78	415.6	0.364		
124.	21.22	35.22	5.47		24.62	337.4	100.	21.78	35.05	24.34	363.7	0.463		
149.	19.73	35.06	5.01		24.90	311.7	150.	19.66	35.05	24.91	310.8	0.633		
173.	17.64	34.77	4.77		25.20	283.0	200.	14.25	34.42	25.70	235.3	0.770		
187.	15.71	34.57	4.89		25.50	254.6	250.	10.56	34.19	26.24	183.9	0.876		
220.	12.46	34.26	4.82		25.95	212.3	300.	9.27	34.26	26.52	158.2	0.962		
246.	10.74	34.20	4.18		26.22	186.3	400.	7.57	34.32	26.83	129.8	1.107		
272.	9.84	34.18	3.80		26.36	173.1	500.	6.74	34.42	27.02	112.0	1.229		
297.	9.33	34.26	2.70		26.51	159.4	600.	6.13	34.46	27.13	102.2	1.338		
396.	7.62	34.32	1.38		26.82	130.7	700.	5.49	34.49	27.24	92.9	1.436		
492.	6.79	34.42	0.75		27.01	113.0	800.	4.91	34.51	27.32	85.3	1.526		
589.	6.20	34.46	0.76		27.12	103.4	1000.	4.12	34.54	27.43	75.7	1.689		
784.	4.99	34.51	0.96		27.31	86.2	1200.	3.49	34.58	27.52	66.9	1.834		
979.	4.19	34.53	1.15		27.41	76.8								
1164.	3.63	34.58	1.40		27.51	67.9								
1414.	2.94	34.61	1.74		27.60	59.2								

SALINITY ERROR TERM AT 20. METERS IS 0.06

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 11, STATION 12, 17-30N LAT, 153-58W LONG, DEC. 7, 1964, 1300 G.C.T.													
DRY BULB 24.3		WET BULB 21.7		WIND SPEED 14, DIR. 04		BAR. 15		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.98	34.04	4.98		22.64	521.4	0.	24.98	34.04	22.64	521.4	0.000	
10.	24.99	34.04	5.07		22.64	522.1	10.	24.99	34.04	22.64	522.1	0.053	
30. Δ	25.06	34.32			22.83	504.7	20.	25.02	34.15	22.72	515.1	0.105	
51.	25.13	34.65	4.79		23.06	483.8	30.	25.06	34.32	22.83	504.7	0.156	
78.	25.03	34.76	4.70		23.17	474.0	50.	25.13	34.64	23.05	484.7	0.256	
101.	22.92	35.03	5.13		24.00	395.8	75.	25.11	34.75	23.14	476.9	0.377	
126.	21.68	35.16	4.86		24.45	353.9	100.	23.02	35.02	23.96	399.5	0.487	
151.	20.70	35.15	4.79		24.71	329.9	150.	20.75	35.15	24.70	330.8	0.671	
175.	18.85	34.92	4.31		25.02	301.0	200.	16.58	34.63	25.35	270.0	0.823	
190.	17.53	34.74			25.21	283.2	250.	11.81	34.19	26.02	205.9	0.943	
224.	14.24	34.39	4.14		25.69	237.8	300.	10.03	34.17	26.32	177.6	1.039	
248.	11.93	34.20	4.46		26.00	207.5	400.	7.63	34.20	26.72	139.7	1.199	
274.	10.81	34.17	3.80		26.18	190.3	500.	6.17	34.24	26.95	118.0	1.330	
300.	10.03	34.17	3.65		26.32	177.6	600.	5.91	34.40	27.11	104.1	1.442	
396.	7.71	34.20	2.17		26.71	140.9	700.	5.41	34.46	27.22	94.6	1.542	
493.	6.21	34.23	1.35		26.94	119.2	800.	4.90	34.47	27.29	88.0	1.634	
589.	5.96	34.39	0.80		27.10	105.3	1000.	4.26	34.52	27.40	78.2	1.803	
787.	4.95	34.47	0.91		27.28	88.7	1200.	3.63	34.56	27.50	69.4	1.952	
982.	4.32	34.52	1.04		27.39	79.2							
1178.	3.65	34.56	1.29		27.49	69.7							
1472.	2.99	34.60	1.75		27.59	60.9							

CROMWELL 11, STATION 13, 19- ON LAT, 154- ON LONG, DEC. 7, 1964, 2200 G.C.T.													
DRY BULB 24.6		WET BULB 21.9		WIND SPEED 18, DIR. 07		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.01	34.74	4.99		23.16	471.8	0.	25.01	34.74	23.16	471.8	0.000	
10.	25.00	34.74	5.05		23.17	471.9	10.	25.00	34.74	23.17	471.9	0.048	
30. Δ	25.00	34.74			23.17	472.7	20.	25.00	34.74	23.16	472.4	0.095	
50. Δ	25.01	34.78			23.19	470.9	30.	25.00	34.74	23.17	472.7	0.143	
73.	25.02	34.81	4.93		23.21	470.0	50.	25.01	34.78	23.19	470.9	0.238	
97.	24.91	34.89	5.01		23.31	462.0	75.	25.05	34.81	23.21	470.6	0.396	
122.	22.71	35.04	5.12		24.07	390.2	100.	24.67	34.90	23.39	454.1	0.473	
147.	21.78	35.26	5.04		24.50	350.1	150.	21.71	35.27	24.52	347.6	0.675	
172.	21.21	35.29	4.87		24.68	333.8	200.	20.10	35.20	24.91	312.5	0.841	
185.	20.83	35.29	4.81		24.78	324.4	250.	16.51	34.67	25.39	267.1	0.987	
217.	19.01	35.04	4.69		25.07	297.7	300.	12.14	34.22	25.97	211.4	1.108	
243.	16.96	34.73	4.60		25.34	272.5	400.	9.42	34.39	26.59	153.2	1.292	
268.	15.22	34.51	4.62		25.56	250.8	500.	7.64	34.40	26.87	127.1	1.433	
292.	12.63	34.24	4.34		25.90	218.8	600.	6.82	34.44	27.03	113.4	1.555	
389.	9.69	34.39	1.48		26.55	157.6	700.	5.90	34.45	27.16	101.1	1.663	
487.	7.78	34.39	0.80		26.85	129.4	800.	5.13	34.47	27.26	91.4	1.761	
586.	6.96	34.44	0.62		27.00	115.3	1000.	4.43	34.54	27.40	79.1	1.933	
782.	5.22	34.46	0.88		27.24	92.9	1200.	3.75	34.57	27.49	70.2	2.084	
982.	4.50	34.54	1.06		27.39	79.9							
1179.	3.78	34.55	1.22		27.47	72.1							
1480.	2.95	34.60	1.60		27.59	60.5							

TEMPERATURE ERROR TERM AT 300. METERS IS 0.14

CROMWELL 11, STATION 14, 20-30N LAT, 153-57W LONG, DEC. 8, 1964, 0700 G.C.T.													
DRY BULB 24.0		WET BULB 22.1		WIND SPEED 15, DIR. 09		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH	
0.	25.12	34.55	4.84		22.95	488.7	0.	25.12	34.55	22.99	488.7	0.000	
10.	25.11	34.55	4.91		22.99	488.8	10.	25.11	34.55	22.99	488.8	0.049	
50. Δ	25.10	34.68			23.09	480.7	20.	25.11	34.57	23.01	487.3	0.098	
76.	25.09	34.75	4.86		23.15	476.4	30.	25.10	34.60	23.03	485.5	0.147	
102.	23.01	34.90	5.23		23.88	407.7	50.	25.10	34.68	23.09	480.7	0.245	
127.	22.38	35.19	4.93		24.27	370.6	75.	25.11	34.75	23.14	477.2	0.365	
152.	20.90*	35.19	4.69		24.68	332.2	100.	23.18	34.88	23.81	413.5	0.478	
176.	19.98	35.13	4.59		24.89	313.9	150.	21.02	35.20	24.66	334.9	0.666	
192.	19.30	35.05	4.54		25.00	303.2	200.	18.86	34.99	25.07	296.9	0.825	
226.	17.03	34.76	4.52		25.34	271.4	250.	14.79	34.51	25.66	241.4	0.961	
252.	14.62	34.49	4.54		25.68	239.2	300.	12.48	34.29	25.97	212.2	1.075	
278.	13.54	34.39	4.61		25.83	225.2	400.	8.94	34.11	26.45	166.3	1.266	
303.	12.33	34.28	4.69		25.99	210.4	500.	6.81	34.17	26.82	131.6	1.417	
404.	8.84	34.11	3.73		26.47	164.8	600.	5.60	34.28	27.05	109.3	1.539	
505.	6.73	34.18	1.65		26.83	130.1	700.	4.99	34.38	27.20	95.3	1.642	
604.	5.57	34.28	0.99		27.06	108.6	800.	4.67	34.46	27.30	86.3	1.734	
804.	4.66	34.46	0.86		27.31	86.0	1000.	4.07	34.52	27.42	76.3	1.898	
1006.	4.05	34.52	1.09		27.42	76.1	1200.	3.47	34.56	27.51	68.1	2.044	
1199.	3.42	34.55	1.41		27.51	67.9							
1492.	2.85	34.59	1.65		27.59	60.1							

ΔFROM BT DATA

*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 11, STATION 15, 22-14N LAT, 153-55W LONG, DEC. 8, 1964, 1600 G.C.T.					8, 1964, 1600 G.C.T.					8, 1964, 1600 G.C.T.				
DRY BULB 24.0 WET BULB 21.8 WIND SPEED 24, DIR. 10					BAR. 17 WEATHER 02 VIS. 7 CLOUD TYPE , COVER					BAR. 17 WEATHER 02 VIS. 7 CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	CHL.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CHL.	PD4-P	SIGMA-T
0.	24.60	34.84	4.92		23.36	452.8	0.	24.60	34.84	23.36	452.8	0.000		23.36
10.	24.63	34.84	4.86		23.35	454.1	10.	24.63	34.84	23.35	454.1	0.046		23.35
30.Δ	24.59	34.92			23.43	447.9	20.	24.63	34.87	23.38	452.0	0.091		23.43
50.	24.35	34.99	4.88		23.55	436.8	30.	24.50	34.92	23.43	447.9	0.137		23.55
76.	23.16	35.07	5.05		23.96	398.6	50.	24.35	34.99	23.55	436.8	0.226		23.96
101.	22.24	35.14	4.95		24.28	369.4	75.	23.21	35.07	23.94	400.2	0.331		24.28
126.	21.42	35.21	4.80		24.56	343.4	100.	22.27	35.14	24.26	370.5	0.428		24.56
152.	20.07	35.11	4.50		24.85	316.7	150.	20.18	35.12	24.83	318.6	0.602		24.85
176.	18.97	34.99	4.50		25.04	298.9	200.	17.65	34.80	25.22	282.0	0.753		25.04
190.	18.21	34.88	4.43		25.15	289.0	250.	14.01	34.37	25.72	235.3	0.984		25.15
225.	16.02	34.59	4.22		25.45	261.1	300.	11.77	34.20	26.03	205.6	0.995		25.45
247.	14.20	34.39	4.12		25.69	237.7	400.	8.84	34.13	26.48	163.1	1.181		25.69
277.	12.66	34.25	4.09		25.90	218.2	500.	6.57	34.03	26.74	138.8	1.333		25.90
302.	11.70	34.20	4.09		26.04	204.6	600.	5.31	34.13	26.97	116.6	1.462		26.04
402.	8.79	34.13	3.15		26.49	162.5	700.	4.77	34.28	27.15	99.5	1.571		26.49
503.	6.51	34.03	2.48		26.74	138.2	800.	4.54	34.43	27.29	87.1	1.666		26.74
603.	5.28	34.13	1.18		26.98	116.0	1000.	4.01	34.50	27.41	77.0	1.832		26.98
803.	4.54	34.43	1.22		27.30	86.8	1200.	3.51	34.55	27.50	69.0	1.980		27.30
1003.	4.00	34.50	1.13		27.41	76.9								
1196.	3.51	34.55	1.32		27.50	68.9								
1481.	2.90	34.58	1.59		27.58	61.4								

CROMWELL 11, STATION 16, 23-28N LAT, 153-56W LONG, DEC. 9, 1964, 0000 G.C.T.					9, 1964, 0000 G.C.T.					9, 1964, 0000 G.C.T.				
DRY BULB 24.0 WET BULB 20.7 WIND SPEED 20, DIR. 09					BAR. 17 WEATHER 01 VIS. 7 CLOUD TYPE , COVER 1					BAR. 17 WEATHER 01 VIS. 7 CLOUD TYPE , COVER 1				
DEPTH	TEMP.	SAL.	CHL.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CHL.	PD4-P	SIGMA-T
0.	23.95	35.14	4.92		23.78	412.7	0.	23.95	35.14	23.78	412.7	0.000		23.78
9.	23.92	35.15	4.94		23.80	411.5	10.	23.92	35.15	23.80	411.3	0.041		23.80
30.Δ	23.84	35.17			23.84	408.6	20.	23.88	35.16	23.82	409.9	0.083		23.84
50.Δ	23.80	35.18			23.86	407.5	30.	23.84	35.17	23.84	408.6	0.124		23.86
72.	23.48	35.20	4.92		23.97	398.0	50.	23.80	35.19	23.86	407.5	0.206		23.97
95.	23.08	35.30	4.88		24.16	380.6	75.	23.45	35.22	23.99	396.1	0.308		24.16
118.	22.04	35.25	4.90		24.42	356.7	100.	22.90	35.30	24.21	376.1	0.405		24.42
142.	20.48	35.19	4.79		24.80	321.0	150.	20.16	35.17	24.87	314.4	0.579		24.80
166.	19.45	35.10	4.74		25.00	302.4	200.	17.25	34.78	25.31	274.0	0.727		25.00
180.	18.40	34.95	4.70		25.15	288.2	250.	14.24	34.44	25.72	235.1	0.855		25.15
212.	16.59	34.69	4.62		25.35	266.1	300.	12.13	34.25	26.00	208.4	0.967		25.35
236.	14.95	34.50	4.68		25.62	244.9	400.	9.05	34.11	26.43	168.3	1.158		25.62
260.	13.79	34.40	4.72		25.79	229.0	500.	6.81	34.06	26.73	139.8	1.313		25.79
282.	12.80	34.30	4.79		25.91	217.4	600.	5.72	34.13	26.92	121.4	1.445		25.91
373.	9.87	34.14	3.76		26.32	178.6	700.	4.99	34.25	27.10	104.9	1.559		26.32
466.	7.36	34.06	2.96		26.65	147.3	800.	4.53	34.36	27.24	91.8	1.659		26.65
557.	6.13	34.09	1.81		26.84	129.4	1000.	3.90	34.50	27.42	75.7	1.828		26.84
742.	4.78	34.30	0.78		27.17	98.7	1200.	3.32	34.55	27.52	66.7	1.972		27.17
929.	4.17	34.47	1.02		27.37	79.9								
1117.	3.56	34.53	1.18		27.48	70.4								
1200.**	3.32**	34.55**			27.52	66.7								

CROMWELL 11, STATION 17, 23-33N LAT, 151-00W LONG, DEC. 9, 1964, 1700 G.C.T.					9, 1964, 1700 G.C.T.					9, 1964, 1700 G.C.T.				
DRY BULB 23.7 WET BULB 21.4 WIND SPEED 18, DIR. 11					BAR. 18 WEATHER 15 VIS. 7 CLOUD TYPE 8, COVER 7					BAR. 18 WEATHER 15 VIS. 7 CLOUD TYPE 8, COVER 7				
DEPTH	TEMP.	SAL.	CHL.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CHL.	PD4-P	SIGMA-T
0.	23.89	35.03			23.72	418.9	0.	23.89	35.03	23.72	418.9	0.000		23.72
9.	23.90	35.02			23.71	420.3	10.	23.90	35.02	23.71	420.4	0.042		23.71
30.Δ	23.90	35.03			23.71	420.4	20.	23.91	35.02	23.71	420.8	0.085		23.71
50.Δ	23.76	35.03			23.76	417.2	30.	23.90	35.03	23.71	420.4	0.127		23.76
71.	23.66	35.04			23.79	414.5	50.	23.76	35.03	23.76	417.2	0.211		23.79
95.	23.12	35.14			24.03	393.2	75.	23.63	35.06	23.81	412.6	0.316		24.03
118.	21.52	35.19			24.52	347.2	100.	22.78	35.16	24.13	383.1	0.416		24.52
142.	20.68	35.18			24.74	326.9	150.	20.55	35.18	24.77	323.8	0.594		24.74
166.	20.21	35.15			24.84	317.9	200.	18.54	34.93	25.10	293.6	0.750		24.84
180.	19.55	35.05			24.94	309.0	250.	15.49	34.84	25.53	254.0	0.888		24.94
211.	17.93	34.86			25.20	284.6	300.	12.35	34.23	25.94	214.8	1.006		25.20
236.	16.39	34.65			25.41	265.2	400.	9.12	34.08	26.40	171.3	1.201		25.41
260.	14.82	34.46			25.61	245.8	500.	6.97	34.07	26.72	141.1	1.359		25.61
284.	13.15	34.29			25.83	225.0	600.	5.67	34.15	26.94	119.7	1.490		25.83
377.	9.77	34.10			26.31	180.0	700.	4.99	34.27	27.12	103.0	1.603		26.31
474.	7.44	34.07			26.65	147.8	800.	4.61	34.38	27.25	91.4	1.701		26.65
569.	5.96	34.11			26.88	125.8	1000.	3.98	34.47	27.39	78.6	1.873		26.88
760.	4.77	34.35			27.21	95.1	1200.	3.46	34.54	27.50	68.8	2.022		27.21
951.	4.12	34.45			27.36	81.6								
1143.	3.61	34.53			27.47	71.2								
1439.	2.97	34.58			27.57	61.9								

Δ FROM ST DATA
 **EXTRAPOLATED DATA

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL 11, STATION 18, 22- ON LAT, 151- 1W LONG, DEC. 10, 1964, 0300 G.C.T.						8AR. 16		VIS. 3		CLOUD TYPE 8, COVER 9		
DRY BULB 22.9 WET BULB 21.6 WIND SPEED 18, DIR. 15 WEATHER 53												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.12	34.80			23.48	442.0	0.	24.12	34.80	23.48	442.0	0.000
10.	24.17	34.86			23.51	439.5	10.	24.17	34.86	23.51	439.5	0.044
20.	24.18	34.86			23.50	440.2	20.	24.18	34.86	23.50	440.2	0.089
30.	24.10	34.90			23.56	435.4	30.	24.10	34.90	23.56	435.4	0.133
51.	23.34*	35.12			23.95	399.0	50.	23.38	35.11	23.93	400.8	0.217
76.	23.04	35.09			24.01	393.9	75.	23.05	35.09	24.01	394.0	0.317
100.	21.98	35.21			24.40	357.3	100.	21.98	35.21	24.40	357.3	0.412
125.	21.14	35.21			24.63	336.1	150.	20.42	35.20	24.82	319.0	0.582
151.	20.39	35.20			24.83	318.3	200.	18.65	34.99	25.12	291.8	0.736
175.	19.48	35.10			24.99	303.5	250.	14.67	34.40	25.60	247.2	0.872
190.	19.00	35.04			25.07	296.5	300.	11.42	34.09	26.01	207.4	0.987
223.	17.40	34.81			25.29	276.2	400.	0.38	34.08	26.52	159.8	1.172
251.	14.57	34.38			25.61	246.1	500.	6.26	34.10	26.83	129.6	1.318
275.	12.88	34.20			25.82	226.1	600.	5.06	34.20	27.06	108.0	1.438
301.	11.37	34.09			26.02	206.7	700.	4.57	34.34	27.22	93.0	1.539
400.	8.38	34.08			26.52	159.8	800.	4.40	34.46	27.34	82.8	1.628
501.	6.24	34.10			26.83	129.3	1000.	3.92	34.52	27.43	74.5	1.788
600.	5.06	34.20			27.06	108.0	1200.	3.49	34.56	27.51	68.0	1.932
800.	4.40	34.46			27.34	82.8	1500.	2.87	34.59	27.59	60.4	2.127
1002.	3.92	34.52			27.43	74.5						
1202.	3.49	34.56			27.51	68.0						
1502.	2.87	34.59			27.59	60.4						

CROMWELL 11, STATION 19, 20-30N LAT, 151- 6W LONG, DEC. 10, 1964, 1300 G.C.T.						8AR. 16		VIS. 7		CLOUD TYPE 3, COVER 6		
DRY BULB 24.0 WET BULB 22.1 WIND SPEED 13, DIR. 14 WEATHER 03												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.19	34.85			23.49	440.4	0.	24.19	34.85	23.49	440.4	0.000
9.	24.22	34.85			23.48	441.6	10.	24.22	34.85	23.48	441.8	0.044
30.	24.21	34.85			23.49	442.1	20.	24.22	34.84	23.48	442.7	0.089
49.	24.17	34.96			23.58	433.8	30.	24.21	34.85	23.49	442.1	0.134
74.	23.73	35.08			23.80	413.7	50.	24.17	34.97	23.59	433.4	0.222
98.	22.07	35.16			24.34	363.3	75.	23.66	35.08	23.83	411.6	0.328
123.	21.40	35.18			24.54	345.0	100.	22.01	35.17	24.36	361.4	0.426
148.	20.02	35.07			24.83	318.2	150.	19.95	35.07	24.85	316.7	0.596
172.	18.99	35.00			25.04	298.6	200.	16.95	34.72	25.33	271.5	0.745
187.	17.73	34.83			25.23	281.2	250.	13.84	34.38	25.76	231.6	0.871
219.	15.93	34.59			25.47	258.9	300.	10.77	34.12	26.15	193.8	0.979
246.	14.14	34.41			25.72	234.9	400.	7.69	34.07	26.61	150.3	1.152
271.	12.34	34.21			25.93	215.0	500.	5.75	34.11	26.90	122.1	1.290
295.	10.99	34.13			26.12	196.8	600.	5.07	34.27	27.11	102.7	1.403
393.	7.87	34.07			26.58	152.8	700.	4.66	34.38	27.25	90.5	1.501
492.	5.84	34.10			26.88	124.0	800.	4.38	34.46	27.34	82.8	1.589
590.	5.12	34.26			27.10	104.2	1000.	3.84	34.52	27.45	73.2	1.747
787.	4.42	34.45			27.33	83.7	1200.	3.35	34.57	27.53	65.8	1.887
984.	3.88	34.52			27.44	73.8						
1182.	3.42	34.56			27.52	67.0						
1439.	2.78	34.60			27.61	58.2						

CROMWELL 11, STATION 20, 19- IN LAT, 151- 0W LONG, DEC. 10, 1964, 2200 G.C.T.						8AR. 16		VIS. 7		CLOUD TYPE 4, COVER 3		
DRY BULB 24.7 WET BULB 22.0 WIND SPEED 15, DIR. 11 WEATHER 02												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.77	34.69			23.20	468.5	0.	24.77	34.69	23.20	468.5	0.000
9.	24.71	34.69			23.22	467.1	10.	24.71	34.69	23.22	467.1	0.047
30.	24.66	34.70			23.24	465.8	20.	24.68	34.69	23.23	466.4	0.094
50.	24.62	34.74			23.28	462.5	30.	24.66	34.70	23.24	465.8	0.141
75.	24.56	34.98			23.48	444.5	50.	24.62	34.74	23.28	462.5	0.235
99.	23.75	35.07			23.79	416.0	75.	24.56	34.98	23.48	444.5	0.349
125.	22.33	35.18			24.28	369.9	100.	23.70	35.07	23.81	414.3	0.457
150.	20.83	35.20			24.71	329.6	150.	20.83	35.20	24.71	329.6	0.644
175.	19.97	35.12			24.88	314.3	200.	18.46	34.94	25.13	291.1	0.801
190.	19.07	35.02			25.04	299.7	250.	13.97	34.35	25.71	236.0	0.934
224.	16.67	34.69			25.37	268.2	300.	10.52	34.23	26.28	181.5	1.039
251.	13.87	34.34			25.72	234.7	400.	7.85	34.23	26.71	140.8	1.202
276.	11.97	34.25			26.03	205.3	500.	6.67	34.32	26.95	118.7	1.333
300.	10.52	34.23			26.28	181.5	600.	5.87	34.40	27.12	103.3	1.445
400.	7.85	34.23			26.71	140.8	700.	5.32	34.46	27.23	93.5	1.544
498.	6.69	34.32			26.95	119.1	800.	4.92	34.49	27.30	86.9	1.635
596.	5.89	34.40			27.11	103.7	1000.	4.18	34.53	27.42	76.9	1.801
797.	4.93	34.49			27.30	87.1	1200.	3.57	34.56	27.50	69.2	1.949
995.	4.20	34.53			27.41	77.1						
1193.	3.61	34.55			27.49	70.1						
1423.	2.99	34.59			27.58	61.3						

ΔFROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 11, STATION 21, 17-30N LAT, 150-58W LONG, DEC. 11, 1964, 0800 G.C.T.													
DRY BULB 24.4		WET BULB 21.9		WIND SPEED 10, DIR. 10		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.38	34.96			23.52	437.9	0.	24.38	34.96	23.52	437.9	0.000	
9.	24.36	34.96			23.52	437.6	10.	24.36	34.96	23.53	437.5	0.044	
19.	24.32	34.97			23.54	436.2	20.	24.31	34.97	23.55	435.9	0.088	
50.Δ	24.10	35.02			23.65	427.5	30.	24.25	34.98	23.58	433.5	0.132	
59.	24.05	35.04			23.68	425.0	50.	24.10	35.02	23.65	427.5	0.219	
84.	21.84	35.19			24.43	354.4	75.	22.74	35.14	24.13	382.3	0.321	
109.	20.89	35.21			24.70	329.0	100.	21.18	35.21	24.63	335.8	0.411	
134.	19.67	35.15			24.99	301.9	150.	18.47	34.95	25.14	288.6	0.568	
159.	17.74	34.82			25.22	281.3	200.	13.75	34.33	25.74	231.4	0.699	
184.	15.58	34.53			25.50	254.6	250.	10.87	34.28	26.26	182.7	0.804	
209.	12.78	34.25			25.88	218.8	300.	9.59	34.42	26.59	152.1	0.888	
232.	11.34	34.24			26.14	193.5	400.	8.11	34.46	26.85	127.7	1.029	
259.	10.71	34.31			26.31	177.9	500.	7.19	34.47	27.00	115.1	1.152	
283.	9.96	34.40			26.51	159.1	600.	6.46	34.48	27.10	105.6	1.263	
307.	9.46	34.42			26.61	150.0	700.	5.81	34.49	27.19	97.5	1.366	
504.	7.17	34.47			27.00	114.9	800.	5.29	34.50	27.27	90.7	1.461	
603.	6.44	34.48			27.11	105.3	1000.	4.49	34.54	27.39	80.3	1.634	
704.	5.79	34.49			27.20	97.2	1200.	3.79	34.56	27.48	71.6	1.788	
901.	4.85	34.52			27.33	85.0	1500.	2.94	34.60	27.60	60.2	1.989	
1099.	4.16	34.55			27.43	76.1	2000.	2.10	34.65	27.71	49.0	2.266	
1200.	3.79	34.56			27.48	71.6	2500.	1.75	34.68	27.76	44.6	2.504	
1472.	3.00	34.60	3.56		27.59	61.0	3000.	1.60	34.70	27.80	43.2	2.737	
1942.	2.16	34.65	2.87		27.70	49.7							
2913.	1.65	34.69	1.52		27.77	43.9							
3907.	1.44	34.70	2.27		27.80	43.0							

TEMPERATURE ERROR TERM AT 75. METERS IS 0.17

TEMPERATURE ERROR TERM AT 3000. METERS IS 0.14

CROMWELL 11, STATION 22, 16- ON LAT, 150-59W LONG, DEC. 11, 1964, 1700 G.C.T.												
DRY BULB 24.8		WET BULB 22.1		WIND SPEED 19, DIR. 06		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 4, COVER 8
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.40	34.04			22.52	533.6	0.	25.40	34.04	22.52	533.6	0.000
9.Δ	25.41	34.04			22.51	534.3	10.	25.41	34.04	22.52	534.1	0.054
30.	25.40	34.10			22.56	530.5	20.	25.41	34.07	22.54	532.2	0.107
50.	25.40	34.04			22.52	535.6	30.	25.40	34.10	22.56	530.5	0.161
75.	23.12	34.90			23.84	409.7	50.	25.40	34.04	22.52	535.6	0.268
100.	20.27	35.01			24.72	327.2	75.	23.12	34.90	23.84	409.7	0.387
126.	17.62	34.69			25.15	286.8	100.	20.27	35.01	24.72	327.2	0.430
151.	13.96	34.34			25.70	233.8	150.	14.10	34.35	25.68	235.7	0.622
176.	12.10	34.21			25.98	208.2	200.	11.08	34.22	26.17	189.6	0.729
191.	11.34	34.19			26.10	196.3	250.	9.16	34.21	26.50	159.3	0.817
224.	10.45	34.30			26.35	173.5	300.	8.94	34.41	26.69	142.3	0.993
251.	9.12	34.21			26.50	158.9	400.	7.82	34.47	26.91	122.6	1.027
277.	8.21	34.36			26.60	149.8	500.	7.31	34.54	27.03	111.7	1.145
301.	8.92	34.41			26.69	142.0	600.	6.56	34.53	27.13	103.3	1.254
402.	7.80	34.47			26.91	122.3	700.	5.86	34.52	27.21	95.7	1.354
502.	7.30	34.54			27.04	111.5	800.	5.24	34.52	27.29	88.9	1.448
603.	6.54	34.53			27.13	103.0	1000.	4.32	34.55	27.42	77.2	1.616
803.	5.22	34.52			27.29	88.7	1200.	3.73	34.58	27.50	69.4	1.764
1003.	4.31	34.55			27.42	77.0						
1203.	3.72	34.58			27.50	69.3						
1484.	2.94	34.61			27.60	59.7						

CROMWELL 11, STATION 23, 14-31N LAT, 151- ON LONG, DEC. 12, 1964, 0200 G.C.T.													
DRY BULB 26.2		WET BULB 22.6		WIND SPEED 19, DIR. 16		BAR. 11		WEATHER 02		VIS. 7		CLCUD IYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.55	34.00			22.44	540.9	0.	25.55	34.00	22.44	540.9	0.000	
9. Δ	25.54	34.00			22.44	541.0	10.	25.53	34.01	22.45	540.3	0.054	
30.	25.32	34.13			22.61	526.0	20.	25.43	34.06	22.53	533.6	0.109	
49.	25.34	34.17			22.63	524.4	30.	25.32	34.13	22.61	526.0	0.162	
74.	22.86	34.83			23.87	407.6	50.	25.27	34.20	22.67	520.4	0.267	
98.	20.69	34.88			24.51	347.3	75.	22.78	34.84	23.90	404.6	0.384	
123.	17.12	34.56			25.17	284.7	100.	20.41	34.86	24.56	341.7	0.478	
148.	14.75	34.44			25.61	242.6	150.	14.47	34.41	25.65	238.7	0.624	
172.	11.87	34.25			26.05	200.9	200.	11.32	34.57	26.40	168.1	0.727	
186.	11.50	34.44			26.27	180.6	250.	10.34	34.62	26.61	148.8	0.807	
219.	11.10	34.66			26.51	158.1	300.	9.74	34.63	26.73	138.9	0.879	
246.	10.40	34.62			26.61	149.6	400.	8.53	34.59	26.89	124.7	1.012	
271.	10.08	34.61			26.65	145.4	500.	7.50	34.55	27.01	113.9	1.133	
295.	9.80	34.63			26.72	139.8	600.	6.70	34.53	27.11	105.4	1.243	
392.	8.62	34.59			26.88	125.7	700.	5.95	34.53	27.21	96.7	1.345	
490.	7.59	34.55			27.00	114.8	800.	5.32	34.53	27.29	89.0	1.439	
587.	6.81	34.53			27.10	106.6	1000.	4.45	34.55	27.40	78.5	1.609	
782.	5.41	34.53			27.28	90.2	1200.	3.74	34.57	27.50	69.9	1.759	
977.	4.54	34.55			27.39	79.6							
1173.	3.82	34.57			27.48	71.0							
1393.	3.21	34.60			27.57	63.1							

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 11, STATION 24, 13- ON LAT, 151- ON LONG, DEC. 12, 1964, 1200 G.C.T.													
DRY BULB 24.8		WET BULB 22.5		WIND SPEED 15, DIR. 08		BAR. 12		WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPT.	
0.	25.51	34.05			22.49	536.1	0.	25.51	34.05	22.49	536.1	0.000	
10.	25.53	34.05			22.48	537.1	10.	25.53	34.05	22.48	537.1	0.054	
20. ^Δ	25.53	34.05			22.48	537.5	20.	25.53	34.05	22.48	537.5	0.108	
30. ^Δ	25.53	34.05			22.48	537.9	30.	25.53	34.05	22.48	537.9	0.162	
52.	22.83	34.62			23.72	421.1	50.	23.15	34.56	23.58	424.0	0.260	
77.	20.03	34.74			24.58	339.9	75.	20.27	34.75	24.52	345.3	0.358	
103.	15.78	34.47			25.41	260.9	100.	16.28	34.51	25.33	268.8	0.436	
127.	12.85	34.32			25.92	212.9	150.	11.50	34.41	26.25	181.8	0.549	
154.	11.37	34.44			26.29	177.5	200.	10.51	34.62	26.59	150.3	0.633	
179.	10.83	34.57			26.49	159.1	250.	10.11	34.67	26.70	141.0	0.706	
194.	10.58	34.61			26.57	152.2	300.	9.50	34.66	26.79	133.1	0.776	
228.	10.28	34.66			26.66	144.2	400.	8.53	34.61	26.91	123.2	0.905	
256.	10.05	34.67			26.71	140.2	500.	7.54	34.56	27.02	113.3	1.024	
282.	9.60	34.65			26.77	134.8	600.	6.64	34.54	27.13	103.5	1.134	
307.	9.48	34.66			26.79	132.6	700.	5.95	34.54	27.22	95.6	1.234	
408.	8.43	34.60			26.91	122.4	800.	5.41	34.55	27.29	89.0	1.328	
511.	7.44	34.56			27.03	112.2	1000.	4.52	34.57	27.41	78.3	1.497	
612.	6.54	34.54			27.14	102.4	1200.	3.98	34.58	27.47	72.6	1.650	
815.	5.34	34.55			27.30	88.2	1500.	3.14	34.61	27.58	62.3	1.855	
1019.	4.45	34.57			27.42	77.5							
1220.	3.94	34.58			27.48	72.2							
1511.	3.12	34.61			27.58	62.0							

CROMWELL 11, STATION 25, 11-31N LAT, 150-49W LONG, DEC. 12, 1964, 2300 G.C.T.													
DRY BULB 26.3		WET BULB 23.0		WIND SPEED 19, DIR. 07		BAR. 11		WEATHER 02		VIS. 5		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPT.	
0.	25.42	34.08			22.54	531.3	0.	25.42	34.08	22.54	531.3	0.000	
9.	25.42	34.08			22.54	531.7	10.	25.42	34.08	22.54	531.8	0.054	
20. ^Δ	25.40	34.08			22.55	531.5	20.	25.40	34.08	22.55	531.5	0.107	
30. ^Δ	25.30	34.14			22.62	524.7	30.	25.30	34.14	22.62	524.7	0.160	
49.	21.80	34.83			24.16	378.1	50.	21.72	34.85	24.20	374.5	0.251	
74.	19.99	34.99			24.78	320.6	75.	19.84	34.97	24.80	318.0	0.338	
98.	16.06	34.55			25.41	261.0	100.	15.76	34.53	25.46	255.9	0.410	
124.	12.96	34.48			26.02	203.2	150.	12.06	34.72	26.38	169.7	0.518	
148.	12.13	34.71			26.36	171.3	200.	10.91	34.75	26.61	147.9	0.598	
172.	11.42	34.74			26.52	156.8	250.	10.35	34.73	26.70	140.9	0.670	
197.	10.95	34.75			26.61	148.4	300.	9.94	34.72	26.76	135.8	0.740	
221.	10.70	34.74			26.65	145.3	400.	9.33	34.68	26.83	130.8	0.875	
245.	10.41	34.73			26.69	141.6	500.	8.47	34.64	26.94	121.7	1.002	
270.	10.14	34.72			26.73	138.3	600.	7.51	34.59	27.05	112.5	1.120	
293.	9.98	34.72			26.76	136.1	700.	6.62	34.56	27.15	103.3	1.229	
386.	9.43	34.68			26.82	131.9	800.	5.88	34.55	27.23	95.3	1.330	
482.	8.64	34.65			26.92	123.3	1000.	4.85	34.56	27.37	83.0	1.510	
577.	7.73	34.60			27.02	114.7	1200.	4.00	34.57	27.47	73.1	1.668	
767.	6.09	34.55			27.21	97.6	1500.	3.16	34.61	27.58	62.8	1.875	
958.	5.06	34.56			27.34	85.4	2000.	2.28	34.65	27.69	51.8	2.166	
1148.	4.18	34.57			27.45	75.3	2500.	1.89	34.67	27.74	47.0	2.418	
1441.	3.31	34.60			27.56	64.6	3000.	1.63	34.69	27.77	44.1	2.650	
1911.	2.39	34.64	2.23		27.67	53.2							
2388.	1.96	34.67	2.57		27.73	47.7							
2869.	1.72	34.68	2.91		27.76	45.5							
3852.	1.46	34.70	3.57		27.79	43.2							

CROMWELL 11, STATION 26, 10- 4N LAT, 147-58W LONG, DEC. 13, 1964, 2200 G.C.T.													
DRY BULB 26.0		WET BULB 24.0		WIND SPEED 20, DIR. 12		BAR. 11		WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 9	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.Δ	25.58	33.84			22.31	553.3	0.	25.58	33.84	22.31	553.3	0.000	
10.	25.58	33.84	4.77		22.31	553.7	10.	25.58	33.84	22.31	553.7	0.056	
20.Δ	25.58	33.84			22.31	554.1	20.	25.58	33.84	22.31	554.1	0.112	
30.	25.50	33.85			22.34	551.4	30.	25.50	33.85	22.34	551.4	0.167	
40.	17.24	34.56	3.91		25.14	284.8	50.	14.91	34.52	25.64	237.4	0.247	
52.	14.82	34.47	3.17		25.62	239.0	75.	12.73	34.63	26.18	186.7	0.300	
77.	12.65	34.65	0.45		26.21	183.6	100.	11.71	34.75	26.47	159.2	0.344	
102.	11.66	34.76	0.19		26.49	158.0	150.	10.95	34.74	26.60	147.8	0.421	
128.	11.19	34.75	0.34		26.57	151.0	200.	10.35	34.74	26.71	138.9	0.493	
155.	10.90	34.74	0.45		26.61	147.3	250.	9.90	34.71	26.76	134.5	0.562	
180.	10.58	34.73	0.41		26.66	143.1	300.	9.57	34.70	26.81	130.8	0.629	
194.	10.42	34.74	0.45		26.70	139.9	400.	8.81	34.66	26.90	123.5	0.757	
229.	10.03	34.72	0.37		26.75	135.6	500.	7.95	34.61	26.99	116.2	0.878	
256.	9.87	34.71	0.37		26.77	134.2	600.	7.05	34.57	27.10	107.0	0.991	
282.	9.71	34.71	0.39		26.79	132.2	700.	6.17	34.56	27.20	97.5	1.094	
307.	9.52	34.70	0.32		26.82	130.3	800.	5.42	34.55	27.29	89.1	1.189	
408.	8.75	34.66	0.28		26.91	122.9	1000.	4.52	34.57	27.41	78.4	1.358	
511.	7.85	34.60	0.30		27.00	115.4	1200.	3.82	34.59	27.50	70.0	1.508	
612.	6.94	34.57	0.50		27.11	105.9							
815.	5.32	34.55	0.93		27.30	87.9							
1019.	4.46	34.57	1.08		27.42	77.6							
1220.	3.76	34.59	1.49		27.51	69.2							
1455.Δ	3.13	34.62	1.71		27.59	61.0							

TEMPERATURE ERROR TERM AT 50. METERS IS 0.17

Table 1.-Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 11, STATION 27, 11-32N LAT, 148-1W LONG, DEC. 14, 1964, 0600 G.C.T.													
DRY BULB 26.2		WET BULB 23.4		WIND SPEED 22, DIR. 06		BAR. 12		WEATHER 01		VIS. 6		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.	
0. ^Δ	25.65	34.10			22.49	536.6	0.	25.65	34.10	22.49	536.6	0.000	
11.	25.64	34.10	4.74		22.49	536.8	10.	25.64	34.10	22.49	536.9	0.054	
20. ^Δ	25.58	34.11			22.51	534.6	20.	25.58	34.11	22.51	534.6	0.108	
30. ^Δ	25.40	34.13			22.98	528.3	30.	25.40	34.13	22.58	528.3	0.162	
52.	16.93	34.52	3.63		25.1P	281.0	50.	17.80	34.49	24.95	303.3	0.245	
65.	14.83	34.46	1.98		25.61	240.4	75.	13.52	34.55	25.96	207.4	0.310	
78.	13.20	34.59	0.74		26.05	198.6	100.	12.31	34.71	26.33	173.1	0.358	
102.	12.29	34.72	0.24		26.33	172.4	150.	11.20	34.75	26.57	151.3	0.419	
128.	11.67	34.76	0.21		26.48	158.8	200.	10.58	34.74	26.66	143.0	0.514	
155.	11.10	34.75	0.31		26.58	150.0	250.	10.17	34.72	26.72	138.3	0.584	
179.	10.75	34.75	0.45		26.65	144.5	300.	9.80	34.71	26.78	133.8	0.653	
194.	10.63	34.74	0.45		26.66	143.5	400.	9.04	34.67	26.88	126.3	0.784	
229.	10.36	34.73	0.43		26.70	140.4	500.	8.18	34.62	26.97	119.0	0.908	
256.	10.12	34.72	0.40		26.73	137.7	600.	7.24	34.57	27.07	109.7	1.024	
282.	9.92	34.72	0.39		26.77	134.9	700.	6.41	34.55	27.17	100.8	1.130	
307.	9.76	34.71	0.37		26.79	133.5	800.	5.71	34.55	27.25	92.9	1.228	
408.	8.97	34.67	0.19		26.88	125.7	1000.	4.71	34.57	27.39	80.7	1.404	
511.	8.08	34.61	0.30		26.98	118.1	1200.	3.86	34.59	27.50	70.3	1.557	
614.	7.11	34.57	0.43		27.09	108.3							
816.	5.61	34.55	0.73		27.27	91.7							
1019.	4.63	34.57	1.04		27.40	79.7							
1203.	3.85	34.59	1.28		27.50	70.2							
1440.	3.27	34.61	1.55		27.57	63.4							

TEMPERATURE ERROR TERM AT 50. METERS IS 0.24

CROMWELL 11, STATION 28, 13- ON LAT, 147-58W LONG, DEC. 14, 1964, 1500 G.C.T.												
DRY BULB 24.8		WET BULB 22.2		WIND SPEED 25, DIR. 08		BAR. 12		WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 7
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	25.22	33.89	4.89		22.46	539.2	0.	25.22	33.89	22.46	539.2	0.000
9.	25.26	33.88	4.89		22.44	541.4	10.	25.29	33.88	22.43	542.5	0.054
30.Δ	25.24	33.85			22.45	540.9	20.	25.42	33.87	22.38	547.5	0.109
49.	22.99	34.11	4.72		23.28	462.2	30.	25.24	33.89	22.45	540.9	0.164
74.	16.58	34.51	3.73		25.26	274.6	50.	22.75	34.13	23.37	454.1	0.264
98.	12.60	34.32	2.46		25.96	207.4	75.	16.36	34.50	25.30	270.3	0.356
122.	11.84	34.58	0.64		26.31	174.9	100.	12.47	34.34	26.00	203.9	0.415
148.	11.27	34.67	0.41		26.49	158.7	150.	11.22	34.67	26.50	157.8	0.507
170.	10.82	34.68	0.37		26.58	150.6	200.	10.56	34.70	26.64	145.6	0.583
185.	10.66	34.69	0.37		26.61	147.5	250.	10.10	34.69	26.71	139.3	0.655
219.	10.44	34.70	0.34		26.66	143.7	300.	9.72	34.68	26.77	135.0	0.724
245.	10.14	34.69	0.37		26.71	140.0	400.	8.91	34.64	26.87	126.5	0.856
270.	9.94	34.69	0.47		26.74	137.2	500.	8.01	34.57	26.96	119.4	0.980
293.	9.77	34.68	0.32		26.76	135.6	600.	7.04	34.54	27.07	109.4	1.096
391.	8.99	34.65	0.37		26.87	127.1	700.	6.23	34.53	27.17	100.4	1.202
490.	8.11	34.58	0.39		26.95	120.4	800.	5.57	34.53	27.26	92.4	1.299
587.	7.15	34.54	0.66		27.06	110.7	1000.	4.56	34.55	27.39	79.9	1.474
783.	5.67	34.53	0.66		27.24	93.6	1200.	3.80	34.58	27.49	70.3	1.626
979.	4.65	34.55	0.79		27.38	81.1						
1175.	3.92	34.58	1.18		27.48	71.5						
1472.	3.06	34.61	1.65		27.59	61.0						

TEMPERATURE ERROR TERM AT 20. METERS IS 0.10

CROMWELL 11, STATION 29, 14-30N LAT, 147-59W LONG, DEC. 15, 1964, 0000 G.C.T.													
DRY BULB 26.7		WET BULB 22.5		WIND SPEED 21, DIR. 07		BAR. 12		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 1	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	25.42	34.00	4.77		22.48	537.1	0.	25.42	34.00	22.48	537.1	0.000	
10.	25.42	34.00	4.78		22.48	537.5	10.	25.42	34.00	22.48	537.5	0.054	
30.Δ	25.42	34.00			22.48	538.3	20.	25.42	34.00	22.48	538.0	0.108	
51.	25.39	34.01	4.76		22.50	537.5	30.	25.42	34.00	22.48	538.3	0.162	
77.	21.70	34.70	4.69		24.09	385.8	50.	25.42	34.00	22.48	538.8	0.271	
102.	19.55	34.80	4.67		24.75	324.4	75.	22.03	34.64	23.96	398.6	0.389	
128.	15.71	34.50	3.71		25.45	257.9	100.	19.72	34.81	24.71	328.0	0.481	
153.	12.90*	34.32	2.48		25.91	214.5	150.	13.17	34.33	25.86	219.0	0.618	
177.	11.70	34.47	1.10		26.25	181.8	200.	10.52	34.43	26.44	164.2	0.715	
193.	10.72	34.42	1.46		26.39	168.6	250.	9.98	34.55	26.62	147.8	0.794	
227.	10.20	34.53	0.79		26.57	152.4	300.	9.59	34.60	26.73	139.0	0.866	
255.	9.94	34.55	0.62		26.63	147.2	400.	8.51	34.57	26.88	125.3	0.999	
280.	9.76	34.58	0.50		26.68	142.5	500.	7.61	34.55	27.00	115.2	1.121	
305.	9.55	34.60	0.31		26.74	138.1	600.	6.79	34.53	27.10	106.4	1.233	
406.	8.44	34.57	0.38		26.89	124.7	700.	6.00	34.52	27.19	97.7	1.336	
509.	7.54	34.55	0.37		27.01	114.4	800.	5.32	34.52	27.28	90.0	1.431	
610.	6.71	34.53	0.49		27.11	105.5	1000.	4.44	34.55	27.40	78.9	1.601	
813.	5.24	34.52	0.61		27.29	89.0	1200.	3.79	34.58	27.49	70.3	1.753	
1016.	4.39	34.55	1.04		27.41	78.1							
1217.	3.74	34.58	1.23		27.50	69.7							
1475.	2.97	34.61	1.62		27.60	60.0							

ΔFROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 11, STATION 30, 16-04N LAT, 147-59W LONG, DEC. 15, 1964, 1000 G.C.T.													
DRY BULB 24.0		WET BULB 21.2		WIND SPEED 20, DIR. 08		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 9	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH.	
0.	25.23	33.92	4.86		22.48	537.3	0.	25.23	33.92	22.48	537.3	0.000	
10.	25.24	33.92	4.84		22.48	538.0	10.	25.24	33.92	22.48	538.0	0.054	
30.Δ	25.23	33.92			22.48	538.5	20.	25.26	33.88	22.44	541.4	0.109	
52.	24.89	34.58	4.95		23.08	481.9	30.	25.23	33.92	22.48	538.5	0.163	
76.	22.29	34.85	5.31		24.04	390.7	50.	24.97	34.51	23.01	488.9	0.266	
101.	20.62	34.96	5.14		24.59	339.8	75.	22.41	34.85	24.00	394.3	0.378	
128.	19.42	34.98	4.88		24.92	309.1	100.	20.67	34.96	24.57	341.2	0.470	
153.	17.09	34.65	4.42		25.24	278.4	150.	17.39	34.70	25.21	281.9	0.627	
177.	15.07	34.40	4.09		25.51	253.0	200.	12.54	34.25	25.93	213.6	0.752	
192.	13.26	34.25	3.21		25.78	227.6	250.	10.77	34.53	26.47	162.7	0.847	
227.	11.04	34.41	1.63		26.33	175.6	300.	10.14	34.57	26.62	149.6	0.926	
253.	10.76	34.54	0.38		26.48	161.8	400.	8.84	34.58	26.84	129.9	1.067	
279.	10.31	34.55	0.64		26.57	153.9	500.	7.82	34.55	26.97	118.2	1.192	
304.	10.11	34.58	0.73		26.62	148.8	600.	6.97	34.53	27.07	109.0	1.307	
405.	8.77	34.58	0.24		26.85	129.1	700.	6.21	34.52	27.17	100.4	1.413	
508.	7.75	34.55	0.30		26.98	117.5	800.	5.54	34.52	27.25	92.8	1.510	
608.	6.91	34.53	0.34		27.08	108.3	1000.	4.57	34.54	27.38	81.1	1.686	
811.	5.47	34.52	0.60		27.26	92.0	1200.	3.84	34.56	27.47	72.3	1.842	
1013.	4.52	34.54	0.82		27.39	80.5							
1215.	3.79	34.56	1.09		27.48	71.7							
1483.	2.93	34.60	0.88		27.59	60.3							

CROMWELL 11, STATION 31, 17-30N LAT, 147-59W LONG, DEC. 15, 1964, 1800 G.C.T.													
DRY BULB 24.0		WET BULB 21.2		WIND SPEED 22, DIR. 08		BAR. 15		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	24.78	34.03	4.84		22.70	516.4	0.	24.78	34.03	22.70	516.4	0.000	
10.	24.79	34.03	4.94		22.69	517.0	10.	24.79	34.03	22.69	517.0	0.052	
30.Δ	24.77	34.03			22.70	517.2	20.	24.80	34.00	22.67	520.0	0.104	
51.	24.52	34.61	4.94		23.21	469.1	30.	24.77	34.03	22.70	517.2	0.157	
77.	21.99	34.74	5.27		24.04	390.7	50.	24.55	34.58	23.18	472.1	0.256	
102.	20.59	34.93	5.20		24.57	341.2	75.	22.21	34.74	23.98	396.4	0.366	
127.	19.00	34.85	4.68		24.93	308.1	100.	20.69	34.92	24.54	344.5	0.459	
154.	16.76	34.63	4.16		25.31	272.4	150.	17.13	34.67	25.25	277.8	0.616	
178.	14.13	34.34	4.13		25.67	238.0	200.	12.35	34.27	25.97	209.2	0.738	
194.	12.74	34.26	3.12		25.89	216.9	250.	10.59	34.45	26.44	165.7	0.833	
228.	11.10	34.38	1.72		26.29	178.9	300.	9.78	34.50	26.62	148.9	0.912	
256.	10.49	34.46	1.10		26.47	163.1	400.	8.45	34.50	26.84	129.5	1.053	
281.	9.96	34.48	0.92		26.57	153.2	500.	7.28	34.48	26.99	115.5	1.176	
306.	9.74	34.51	0.63		26.63	147.9	600.	6.30	34.46	27.11	104.8	1.288	
408.	8.33	34.50	0.32		26.85	128.2	700.	5.62	34.47	27.20	96.3	1.389	
510.	7.18	34.48	0.40		27.01	114.4	800.	5.11	34.49	27.28	89.2	1.483	
612.	6.20	34.46	0.53		27.12	103.7	1000.	4.38	34.53	27.40	79.1	1.653	
816.	5.05	34.50	0.60		27.29	88.1	1200.	3.82	34.57	27.48	71.2	1.806	
964.	4.42	34.54	0.90		27.40	78.8							
1019.	4.37	34.53	0.75		27.46	79.4							
1193.	3.83	34.57	1.09		27.48	71.3							
1200.**	3.82**	34.57**			27.48	71.2							

CROMWELL 11, STATION 32, 18-55N LAT, 147-56W LONG, DEC. 16, 1964, 0200 G.C.T.													
DRY BULB 23.9		WET BULB 19.2		WIND SPEED 20, DIR. 08		BAR. 14		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	24.29	34.02	4.93		22.84	503.1	0.	24.29	34.02	22.84	503.1	0.000	
9.	24.28	34.02	4.95		22.84	503.1	10.	24.28	34.02	22.84	503.1	0.051	
30.Δ	24.34	34.10			22.88	499.9	20.	24.31	34.05	22.86	501.9	0.101	
50.Δ	24.38	34.20			22.95	494.6	30.	24.34	34.10	22.88	499.9	0.152	
73.	22.55	34.59	5.25		23.77	416.4	50.	24.38	34.20	22.95	494.6	0.252	
96.	20.75	34.76	5.08		24.40	357.4	75.	22.38	34.61	23.84	410.3	0.366	
121.	19.53	34.78*			24.74	326.0	100.	20.55	34.77	24.46	351.5	0.462	
145.	17.76	34.70	4.28		25.12	290.0	150.	17.13	34.63	25.22	280.6	0.621	
169.	14.68	34.36	3.24		25.57	247.5	200.	12.43	34.24	25.93	212.9	0.745	
183.	13.37	34.26	3.30		25.76	228.8	250.	10.13	34.24	26.36	173.1	0.843	
216.	11.82	34.26	2.53		26.07	200.3	300.	8.39	34.11	26.54	155.6	0.926	
243.	10.66	34.29	2.34		26.30	178.2	400.	6.99	34.23	26.83	128.8	1.069	
266.	9.02	34.12	3.69		26.45	164.3	500.	6.28	34.32	27.00	113.3	1.191	
291.	8.55	34.11	3.41		26.51	158.2	600.	5.66	34.39	27.14	101.3	1.300	
386.	7.12	34.21	1.65		26.80	131.5	700.	5.16	34.45	27.24	92.0	1.397	
484.	6.39	34.31	0.82		26.98	115.6	800.	4.75	34.49	27.32	84.9	1.487	
580.	5.77	34.38	0.66		27.11	103.5	1000.	4.01	34.54	27.44	74.2	1.648	
771.	4.86	34.48	0.75		27.30	86.7	1200.	3.40	34.57	27.53	65.8	1.789	
963.	4.15	34.53	0.92		27.42	76.2							
1103.	3.65	34.56	1.09		27.49	69.1							
1328.	3.10	34.59	1.35		27.57	62.0							

ΔFROM BT DATA
 *INTERPOLATED DATA
 **EXTRAPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 11, STATION 33, 20-30N LAT, 147-58W LONG, DEC. 16, 1964, 1200 G.C.T.												
DRY BULB 23.1		WET BULB 19.7		WIND SPEED 20, DIR. 09		BAR. 1c		WEATHER 01		VIS. 6		CLOUD TYPE 8, COVER 7
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.18	34.06	5.04		22.90	497.1	0.	24.18	34.06	22.90	497.1	0.000
10.	24.18	34.06	5.06		22.90	497.5	10.	24.18	34.06	22.90	497.5	0.050
50.Δ	24.14	34.40			23.17	473.3	20.	24.17	34.12	22.95	493.2	0.100
77.	24.11	34.60	4.92		23.33	459.1	30.	24.16	34.20	23.01	487.7	0.149
102.	21.61	34.78	5.32		24.18	378.6	50.	24.14	34.40	23.17	473.3	0.246
128.	20.50	34.84	5.21		24.53	346.3	75.	24.16	34.59	23.30	461.5	0.366
154.	19.97	35.05	5.12		24.83	318.6	100.	21.83	34.77	24.11	385.2	0.471
178.	18.81	34.95	4.67		25.05	298.0	150.	20.06	34.22	24.78	322.6	0.649
193.	18.26	34.95	4.86		25.19	285.3	200.	17.82	34.88	25.24	280.1	0.801
227.	15.49	34.51	4.60		25.50	255.4	250.	12.86	34.23	25.84	223.0	0.928
254.	12.45	34.19	4.70		25.89	218.1	300.	10.72	34.11	26.16	193.4	1.033
280.	11.40	34.14	4.73		26.05	203.0	400.	7.48	34.07	26.64	147.3	1.205
304.	10.59	34.11	4.62		26.18	191.6	500.	6.05	34.19	26.93	119.9	1.339
405.	7.34	34.07	2.85		26.66	145.3	600.	5.52	34.35	27.12	103.1	1.452
509.	5.99	34.21	1.06		26.95	118.0	700.	5.09	34.43	27.23	92.7	1.551
611.	5.49	34.36	0.69		27.13	101.7	800.	4.69	34.47	27.31	85.8	1.641
813.	4.64	34.47	0.86		27.32	85.1	1000.	4.01	34.52	27.42	75.7	1.805
1016.	3.96	34.52	1.17		27.43	75.1	1200.	3.49	34.57	27.51	67.5	1.950
1219.	3.44	34.57	1.27		27.52	66.8						
1443.	2.89	34.59	1.50		27.59	60.2						

CROMWELL 11, STATION 34, 22-2N LAT, 147-58W LONG, DEC. 16, 1964, 2100 G.C.T.													
DRY BULB 23.0		WET BULB 18.3		WIND SPEED 18, DIR. 09		BAR. 17		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.80	34.50	5.02		23.34	454.6	0.	23.80	34.50	23.34	454.6	0.000	
10.	23.84	34.50	5.04		23.33	456.1	10.	23.84	34.50	23.33	456.1	0.046	
20.Δ	23.84	34.50			23.33	456.5	20.	23.84	34.50	23.33	456.5	0.092	
30.Δ	23.85	34.50			23.33	457.2	30.	23.85	34.50	23.33	457.2	0.138	
51.	24.34	35.00	4.97		23.56	435.8	50.	24.33	34.97	23.54	437.4	0.228	
76.	23.00	35.15	5.29		24.07	388.4	75.	23.07	35.15	24.05	390.4	0.332	
100.	22.00	35.19	5.21		24.38	359.3	100.	22.00	35.19	24.38	359.3	0.427	
126.	20.81	35.14	4.74		24.67	332.6	150.	19.87	35.08	24.88	313.4	0.596	
151.	19.82	35.08	4.52		24.89	312.6	200.	16.44	34.55	25.32	272.9	0.744	
175.	18.16	34.82	4.31		25.11	291.7	250.	12.96	34.28	25.86	221.4	0.868	
189.	17.27	34.63	4.22		25.18	285.1	300.	10.98	34.15	26.14	195.3	0.974	
224.	14.62	34.43	4.39		25.63	242.7	400.	7.76	34.07	26.60	151.3	1.148	
251.	12.90	34.27	4.63		25.87	220.7	500.	6.05	34.11	26.87	126.0	1.288	
276.	11.92	34.18	4.59		25.99	209.5	600.	5.26	34.23	27.06	108.1	1.407	
300.	10.98	34.15	4.24		26.14	195.3	700.	4.87	34.35	27.20	95.5	1.509	
400.	7.76	34.07	3.11		26.60	151.3	800.	4.64	34.45	27.30	86.4	1.601	
499.	6.06	34.11	1.63		26.86	126.2	1000.	4.04	34.52	27.42	75.9	1.766	
599.	5.26	34.23	0.86		27.06	108.3	1200.	3.49	34.56	27.51	68.1	1.912	
798.	4.65	34.45	0.79		27.30	86.6							
998.	4.05	34.52	1.12		27.42	76.0							
1195.	3.49	34.55	1.20		27.50	68.7							
1469.	2.86	34.59	1.50		27.59	60.1							

CROMWELL 11, STATION 35, 23-30N LAT, 147-56W LONG, DEC. 17, 1964, 0500 G.C.T.													
DRY BULB 22.9		WET BULB 18.6		WIND SPEED 13, DIR. 10		BAR. 15		WEATHER 01		VIS. 7		CLOUD TYPE 1, COVER 1	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	23.13	35.20	5.07		24.07	385.5	0.	23.13	35.20	24.07	385.5	0.000	
9.	23.12	35.20	5.04		24.07	385.6	10.	23.12	35.20	24.07	385.6	0.039	
30.Δ	23.06	35.23			24.11	382.6	20.	23.10	35.21	24.08	384.8	0.078	
50.Δ	22.84	35.30			24.23	372.2	30.	23.06	35.23	24.11	382.6	0.116	
73.	22.74	35.31	5.06		24.26	369.7	50.	22.84	35.30	24.23	372.2	0.192	
98.	21.19	35.27	5.08		24.67	332.0	75.	22.63	35.31	24.29	366.9	0.285	
122.	20.35	35.23	4.92		24.86	314.1	100.	21.11	35.27	24.69	330.1	0.373	
147.	19.58	35.13	4.76		24.99	302.8	150.	19.51	35.12	25.00	301.8	0.532	
170.	18.95	35.05	4.81		25.09	293.9	200.	16.97	34.74	25.34	270.5	0.677	
185.	18.19	34.93	4.73		25.19	284.8	250.	13.46	34.31	25.78	229.0	0.803	
217.	15.50	34.53	4.66		25.52	253.9	300.	11.18	34.13	26.08	200.5	0.911	
244.	13.81	34.34	4.69		25.74	233.3	400.	8.50	34.06	26.48	163.4	1.094	
268.	12.50	34.22	4.59		25.91	217.2	500.	6.45	34.06	26.77	135.4	1.245	
293.	11.42	34.14	4.61		26.05	203.7	600.	5.43	34.14	26.96	117.3	1.373	
390.	8.75	34.06	4.24		26.44	166.8	700.	4.88	34.26	27.12	102.4	1.484	
488.	6.62	34.05	2.30		26.74	138.0	800.	4.57	34.38	27.25	91.0	1.582	
585.	5.54	34.12	1.24		26.94	119.8	1000.	4.05	34.50	27.41	77.5	1.752	
780.	4.63	34.36	0.61		27.23	92.8	1200.	3.51	34.56	27.51	68.2	1.900	
973.	4.13	34.49	0.94		27.39	79.0							
1168.	3.55	34.54	1.22		27.49	69.9							
1463.	2.93	34.58	1.49		27.58	61.6							

Table 1.-Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 11, STATION 36, 25- ON LAT, 147-59W LONG, DEC. 17, 1964, 1400 G.C.T.												
DRY BULB 21.5		WET BULB 18.0		WIND SPEED 11, DIR. 14		BAR. 15	WEATHER 01		VIS. 7	CLUUD TYPE 8, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	OELTA	OYN.OPTH.
0.	22.88	35.27	5.01		24.19	373.6	0.	22.88	35.27	24.19	373.6	0.000
9.	22.88	35.26	5.10		24.19	374.6	10.	22.88	35.26	24.18	374.7	0.038
30. ^Δ	22.88	35.26			24.19	375.4	20.	22.88	35.26	24.18	375.2	0.075
50. ^Δ	22.88	35.26			24.19	376.2	30.	22.88	35.26	24.19	375.4	0.113
74.	22.20	35.34	5.10		24.44	352.9	50.	22.88	35.26	24.19	376.2	0.189
98.	20.93	35.25	5.12		24.72	326.7	75.	22.15	35.34	24.45	351.7	0.281
123.	19.96	35.18	5.04		24.93	307.9	100.	20.85	35.24	24.74	325.0	0.366
148.	18.94	35.06	4.88		25.10	292.2	150.	18.88	35.05	25.11	291.4	0.521
172.	18.04	34.92	4.91		25.22	281.5	200.	16.13	34.63	25.45	259.6	0.660
187.	16.98	34.75	4.84		25.35	269.7	250.	13.13	34.33	25.87	220.7	0.781
220.	14.89	34.49	4.95		25.62	243.9	300.	11.57	34.24	26.10	198.9	0.887
247.	13.26	34.34	5.08		25.85	222.5	400.	9.50	34.12	26.37	174.5	1.075
271.	12.40	34.29	5.02		25.98	210.2	500.	7.13	34.02	26.65	147.5	1.238
296.	11.66	34.25	4.99		26.09	200.1	600.	5.62	34.08	26.89	124.0	1.375
394.	9.65	34.13	4.89		26.35	176.1	700.	4.81	34.21	27.09	105.6	1.491
494.	7.25	34.02	3.41		26.63	149.1	800.	4.42	34.34	27.24	91.8	1.591
592.	5.70	34.07	1.74		26.88	125.6	1000.	3.99	34.49	27.40	77.8	1.762
788.	4.46	34.33	0.62		27.23	93.0	1200.	3.49	34.56	27.51	68.2	1.910
985.	4.03	34.48	1.31		27.39	78.6						
1182.	3.50	34.54	1.18		27.49	69.4						
1430.	2.93	34.58	1.48		27.58	61.4						

CROMWELL 11, STATION 37, 26-28N LAT, 148- ON LONG, DEC. 17, 1964, 2200 G.C.T.													
DRY BULB 22.3		WET BULB 18.8		WIND SPEED 09, DIR. 15		BAR. 14		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	22.34	35.28	5.00		24.35	358.2	0.	22.34	35.28	24.35	358.2	0.000	
10. Δ	22.30	35.29	5.10		24.37	356.7	10.	22.30	35.29	24.37	356.7	0.036	
30. Δ	22.30	35.29			24.37	357.5	20.	22.29	35.29	24.38	356.9	0.072	
50.	22.28	35.30			24.39	357.0	30.	22.30	35.29	24.37	357.5	0.108	
76.	22.07	35.39	5.05		24.51	345.9	50.	22.28	35.30	24.39	357.0	0.180	
101.	21.48	35.38	4.99		24.67	331.8	75.	22.08	35.39	24.51	346.4	0.269	
127.	19.91	35.15	5.11		24.92	308.9	100.	21.52	35.38	24.66	332.5	0.354	
153.	18.67	35.00	4.91		25.12	290.1	150.	18.82	35.02	25.10	292.3	0.511	
176.	17.16	34.77	4.58		25.32	272.0	200.	15.64	34.57	25.51	254.2	0.649	
192.	16.24	34.64	4.59		25.43	261.3	250.	13.00	34.28	25.85	222.0	0.769	
226.	13.98	34.38	4.79		25.73	233.3	300.	11.57	34.23	26.09	199.8	0.876	
253.	12.90	34.27	4.79		25.87	220.8	400.	9.36	34.13	26.40	171.6	1.063	
278.	11.97	34.21	4.82		26.00	208.2	500.	7.10	34.04	26.67	145.4	1.223	
304.	11.52	34.24	4.97		26.11	198.4	600.	5.43	34.03	26.88	124.9	1.359	
405. Δ	9.24	34.12	4.69		26.41	170.4	700.	4.65	34.15	27.07	107.6	1.477	
475. Δ	7.63	34.06	4.24		26.61	151.3	800.	4.28	34.29	27.21	93.9	1.579	
614. Δ	5.25	34.04	1.94		26.91	122.4	1000.	3.66	34.45	27.40	76.8	1.752	
760. Δ	4.44	34.25	6.55		27.17	98.3	1200.	3.29	34.53	27.50	68.0	1.898	
1216.	3.27	34.53	1.20		27.51	67.7	1500.	2.72	34.59	27.61	58.4	2.091	
1519.	2.71	34.59	1.80		27.61	58.6							

CROMWELL 11, STATION 39, 25- 4N LAT, 151- 6W LONG, DEC. 18, 1964, 1600 G.C.T.												
DRY BULB 22.0		WET BULB 20.2		WIND SPEED 15, DIR. 19		BAR. 11		WEATHER 51		VIS.		CLOUD TYPE , COVER 9
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	23.61	34.92			23.72	419.0	0.	23.61	34.92	23.72	419.0	0.000
10. Δ	23.63	34.93			23.72	419.2	10.	23.63	34.93	23.72	419.2	0.042
30. Δ	23.60	34.93			23.73	419.2	20.	23.63	34.92	23.71	420.4	0.085
50. Δ	23.48	35.15			23.93	400.7	30.	23.60	34.93	23.73	419.2	0.127
78.	23.04	35.28			24.15	380.2	50.	23.48	35.15	23.93	400.7	0.209
103.	21.34	35.22			24.59	339.8	75.	23.13	35.28	24.12	382.9	0.308
128.	20.59	35.21			24.78	321.9	100.	21.55	35.23	24.54	344.5	0.400
154.	19.53	35.14			25.01	301.1	150.	19.70	35.16	24.98	304.1	0.563
179.	18.60	34.99			25.13	290.1	200.	17.17	34.77	25.32	273.0	0.709
204.	16.89	34.73			25.35	269.7	250.	14.32	34.40	25.68	239.3	0.838
229.	15.68	34.58			25.52	254.5	300.	11.75	34.19	26.03	206.2	0.950
254.	14.05	34.37			25.71	236.2	400.	9.14	34.08	26.40	171.5	1.141
280.	12.48	34.24			25.93	215.6	500.	6.87	34.03	26.70	143.0	1.299
305.	11.60	34.18			26.05	204.3	600.	5.46	34.10	26.93	120.5	1.432
406.	9.01	34.08			26.42	169.7	700.	4.73	34.22	27.11	103.8	1.546
509.	6.69	34.03			26.72	140.7	800.	4.35	34.33	27.24	91.5	1.645
610.	5.36	34.11			26.95	118.6	1000.	3.94	34.47	27.40	78.1	1.816
813.	4.33	34.35			27.26	90.2	1200.	3.48	34.54	27.49	69.6	1.966
1015.	3.92	34.48			27.40	77.5	1500.	2.89	34.58	27.58	61.4	2.165
1218.	3.44	34.54			27.50	69.0	2000.	2.15	34.63	27.68	51.4	2.452
1521.	2.85	34.58			27.59	61.0	2500.	1.79	34.67	27.74	45.9	2.700
2016.	2.13	34.63	2.02		27.69	51.2	3000.	1.59	34.69	27.78	43.4	2.928
2519.	1.78	34.67	2.44		27.75	45.8	4000.	1.47	34.69	27.79	44.4	3.377
3022.	1.58	34.69	2.90		27.78	43.3						
4050.	1.48	34.69	3.45		27.78	44.7						

Δ FROM BT DATA
 Δ THERMOMETRIC DEPTH

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 11, STATION 39, 24-57N LAT, 154- 1W LONG, DEC. 19, 1964, 0900 G.C.T.												
DRY BULB 23.0		WET BULB 21.3		WIND SPEED 18, DIR. 16		BAR. 11	WEATHER 03		VIS. 7	CLOUD TYPE 8, COVER 8		
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	23.13	35.21	5.02		24.68	384.8	0.	23.13	35.21	24.08	384.8	0.000
10.	23.16	35.21	5.02		24.07	386.0	10.	23.16	35.21	24.07	386.0	0.039
30.Δ	23.06	35.27			24.14	379.7	20.	23.13	35.24	24.10	383.6	0.078
50.	22.84	35.30	4.97		24.23	372.2	30.	23.06	35.27	24.14	379.7	0.116
75.	21.18	35.21	4.78		24.62	335.3	50.	22.84	35.30	24.23	372.2	0.192
100.	20.24	35.17	4.74		24.85	314.9	75.	21.18	35.21	24.62	335.3	0.281
125.	18.87	34.99	4.65		25.07	294.7	100.	20.24	35.17	24.85	314.9	0.363
150.	18.10	34.89	4.69		25.18	284.4	150.	18.10	34.89	25.18	284.4	0.514
174.	16.98	34.74	4.74		25.34	270.0	200.	15.39	34.52	25.54	251.5	0.649
189.	15.93	34.60	4.69		25.47	257.3	250.	12.86	34.28	25.88	219.4	0.768
223.	14.39	34.40	4.69		25.66	240.1	300.	11.15	34.17	26.12	197.0	0.873
249.	12.91	34.28	4.78		25.87	220.1	400.	8.49	34.07	26.49	162.4	1.054
274.	11.88	34.22	4.76		26.03	205.8	500.	6.32	34.03	26.77	135.5	1.204
299.	11.18	34.17	4.72		26.12	197.4	600.	5.11	34.09	26.97	116.5	1.332
397.	8.57	34.07	3.88		26.48	163.4	700.	4.53	34.22	27.13	100.9	1.441
497.	6.37	34.03	2.55		26.76	136.2	800.	4.26	34.36	27.27	88.8	1.537
596.	5.14	34.09	1.37		26.96	117.1	1000.	3.81	34.49	27.42	75.2	1.703
793.	4.28	34.35			27.26	89.5	1200.	3.40	34.56	27.52	67.0	1.847
992.	3.83	34.49	1.09		27.42	75.5						
1190.	3.42	34.54	1.29		27.50	68.5						
1490.	2.83	34.58	1.54		27.59	60.6						

CROMWELL 11, STATION 40, 25- ON LAT, 157- ON LONG, DEC. 19, 1964, 2300 G.C.T.												
DRY BULB 21.8		WET BULB 19.4		WIND SPEED 12, DIR. 24		BAR. 07		WEATHER 15		VIS. 6		CLOUD TYPE 8, COVER 9
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	23.24	35.08			23.95	397.2	0.	23.24	35.08	23.95	397.2	0.000
9.	23.26	35.11			23.96	395.9	10.	23.26	35.11	23.96	396.0	0.040
30.Δ	23.26	35.11			23.96	396.7	20.	23.27	35.11	23.96	396.6	0.080
50.Δ	23.24	35.22			24.05	389.0	30.	23.26	35.11	23.96	396.7	0.120
76.	23.00	35.30			24.18	377.6	50.	23.24	35.22	24.05	389.0	0.199
101.	22.35	35.30			24.37	360.8	75.	23.02	35.30	24.18	378.1	0.296
125.	20.34	35.12			24.78	321.9	100.	22.39	35.30	24.36	361.8	0.389
151.	19.10	34.99			25.01	301.3	150.	19.14	35.00	25.00	301.9	0.556
176.	17.43	34.79			25.27	276.8	200.	16.12	34.63	25.45	259.7	0.698
191.	16.54	34.68			25.40	265.0	250.	13.76	34.38	25.78	229.6	0.821
225.	15.05	34.51			25.60	246.0	300.	11.53	34.19	26.06	202.5	0.930
252.	13.66	34.37			25.75	228.3	400.	9.04	34.10	26.43	168.6	1.117
278.	12.56	34.26			25.93	215.6	500.	6.73	34.01	26.70	142.5	1.274
302.	11.44	34.18			26.08	201.3	600.	5.45	34.08	26.91	121.9	1.408
403.	8.99	34.10			26.44	167.9	700.	4.67	34.18	27.09	105.5	1.523
503.	6.67	34.01			26.71	141.8	800.	4.21	34.30	27.23	92.5	1.623
602.	5.43	34.08			26.92	121.6	1000.	3.81	34.47	27.40	77.1	1.794
802.	4.20	34.30			27.23	92.3	1200.	3.29	34.53	27.50	67.9	1.941
1004.	3.81	34.47			27.41	76.9						
1204.	3.28	34.53			27.51	67.7						
1433.	2.76	34.58			27.59	59.4						

CROMWELL 11, STATION 41, 23-30N LAT, 157- 0W LONG, DEC. 20, 1964, 0800 G.C.T.												
DRY BULB 22.6		WET BULB 20.6		WIND SPEED 06, DIR. 21		BAR. 11		WEATHER 15		VIS. 6		CLOUD TYPE 8, COVER 5
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DEPTH.
0.	23.35	35.12			23.94	397.3	0.	23.35	35.12	23.94	397.3	0.000
10.	23.41	35.13			23.93	398.7	10.	23.41	35.13	23.93	398.7	0.040
30.Δ	23.41	35.16			23.96	397.3	20.	23.42	35.14	23.94	398.3	0.080
50.Δ	23.41	35.18			23.97	396.6	30.	23.41	35.16	23.96	397.3	0.120
75.Δ	23.20	35.23			24.07	388.2	50.	23.41	35.18	23.97	396.6	0.200
100.	22.93	35.26			24.17	379.5	75.	23.20	35.23	24.07	388.2	0.299
124.	20.72	35.14			24.70	330.2	100.	22.93	35.26	24.17	379.5	0.396
149.	19.62	35.04			24.91	310.4	150.	19.58	35.04	24.92	309.7	0.569
174.	18.26	34.89			25.14	289.0	200.	16.23	34.67	25.46	259.3	0.713
188.	17.04	34.75			25.33	271.1	250.	13.19	34.36	25.88	219.3	0.834
222.	14.92	34.54			25.65	240.9	300.	11.86	34.25	26.05	204.0	0.940
247.	13.33	34.38			25.87	220.9	400.	8.89	34.10	26.45	166.6	1.127
273.	12.35	34.28			25.98	210.1	500.	6.73	34.03	26.72	141.0	1.282
298.	11.91	34.25			26.04	204.7	600.	5.30	34.13	26.97	116.4	1.412
397.	8.97	34.10			26.44	167.4	700.	4.67	34.25	27.14	100.6	1.522
496.	6.80	34.03			26.70	142.0	800.	4.41	34.37	27.26	89.6	1.618
594.	5.35	34.12			26.96	117.5	1000.	3.86	34.51	27.43	74.8	1.785
789.	4.45	34.36			27.25	90.7	1200.	3.31	34.57	27.53	65.3	1.926
986.	3.90	34.50			27.42	75.6						
1168.	3.37	34.55			27.51	67.0						
1424.	2.78	34.58			27.59	59.6						

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA					
CROMWELL 11, STATION 42, 22- ON LAT, 157- 2W LONG, DEC. 20, 1964, 1700 G.C.T.												
ORY BULB 23.9		WET BULB 21.5		WIND SPEED 12, DIR. 23		BAR. 10		WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 1
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.30	35.00			23.57	432.7	0.	24.30	35.00	23.57	432.7	0.000
9.	24.32	35.00			23.57	433.6	10.	24.32	35.00	23.57	433.7	0.044
30.Δ	24.32	35.00			23.57	434.4	20.	24.32	35.00	23.57	434.2	0.087
50.Δ	24.32	35.00			23.57	435.2	30.	24.32	35.00	23.57	434.4	0.131
73.	23.63	35.19			23.91	402.9	50.	24.32	35.00	23.57	435.2	0.219
96.	22.67	35.20			24.20	376.6	75.	23.55	35.19	23.94	400.4	0.324
120.	21.90	35.25			24.46	353.1	100.	22.52	35.21	24.25	372.1	0.421
145.	21.54	35.31			24.60	340.1	150.	21.53	35.33	24.62	338.9	0.600
167.	21.06	35.29			24.72	329.7	200.	18.44	34.92	25.12	292.3	0.759
181.	19.67	35.08			24.93	309.9	250.	14.58	34.46	25.67	240.3	0.894
213.	17.69	34.83			25.24	281.2	300.	12.12	34.26	26.01	207.9	1.007
237.	15.67	34.59			25.53	253.8	400.	9.00	34.12	26.45	166.5	1.196
260.	13.83	34.38			25.76	231.2	500.	6.73	34.19	26.84	129.3	1.345
283.	12.76	34.31			25.93	215.9	600.	6.02	34.28	27.00	114.7	1.468
375.	9.82	34.12			26.32	179.3	700.	5.51	34.37	27.14	102.0	1.578
470.	7.12	34.17			26.77	135.8	800.	5.06	34.44	27.25	92.4	1.676
564.	6.25	34.24			26.94	120.0	1000.	4.23	34.50	27.38	80.0	1.850
752.	5.30	34.42			27.20	96.5	1200.	3.60	34.54	27.49	70.5	2.003
943.	4.43	34.48			27.35	83.1						
1136.	3.83	34.53			27.45	73.8						
1437.	3.03	34.58			27.57	62.6						

 Δ FROM BT DATA

Table 2.--Original and derived oceanographic data for Townsend Cromwell cruise 12

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 12, STATION 1, 20-34°N LAT, 157-15°W LONG, JAN. 6, 1965, 0600 G.C.T.												
DRY BULB 24.0		WET BULB 21.0		WIND SPEED 16, DIR. 19		BAR. 11		WEATHER 02		VIS.		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.60	34.79			23.32	456.4	0.	24.60	34.79	23.32	456.4	0.000
10.	24.62	34.74			23.31	458.1	10.	24.62	34.78	23.31	458.1	0.046
31.	24.59	34.81			23.34	455.9	20.	24.65	34.79	23.31	459.0	0.092
75.	22.30	35.36			24.20	375.8	30.	24.60	34.81	23.34	456.4	0.138
100.	21.22	35.09			24.52	345.9	50.	23.76	34.92	23.67	425.2	0.227
124.	19.25	34.97			24.95	305.4	75.	22.30	35.06	24.20	375.8	0.328
150.	18.30	34.87			25.12	290.6	100.	21.22	35.09	24.52	345.9	0.419
174.	17.47	34.78			25.25	278.4	150.	18.30	34.87	25.12	290.6	0.579
180.	16.80	34.71			25.36	268.3	200.	15.84	34.60	25.50	255.3	0.717
222.	15.18	34.53			25.59	247.2	250.	12.83	34.30	25.90	217.2	0.836
250.	12.83	34.30			25.90	217.2	300.	10.94	34.19	26.17	191.8	0.939
275.	11.91	34.24			26.04	204.9	400.	8.50	34.13	26.54	157.9	1.116
299.	10.97	34.17			26.17	192.2	500.	6.55	34.19	26.87	126.6	1.259
398.	8.95	34.13			26.53	158.7	600.	5.74	34.29	27.05	109.8	1.379
496.	6.60	34.17			26.86	127.5	700.	5.25	34.37	27.17	98.9	1.484
598.	5.75	34.29			27.04	110.1	800.	4.90	34.43	27.26	91.1	1.580
797.	4.91	34.43			27.26	91.3	1000.	4.15	34.51	27.40	78.1	1.751
968.	4.26	34.50			27.38	79.8	1200.	3.59	34.54	27.48	70.6	1.902
1117.	3.80	34.53			27.45	73.3						
1346.	3.10	34.54			27.51	68.2						

TEMPERATURE ERROR TERM AT 50. METERS IS 0.14
 TEMPERATURE ERROR TERM AT 200. METERS IS 0.32

CROMWELL 12, STATION 2, 19-1°N LAT, 157-0°W LONG, JAN. 6, 1965, 1800 G.C.T.												
DRY BULB 24.2		WET BULB 22.0		WIND SPEED 18, DIR. 08		BAR. 11		WEATHER 02		VIS. 5		CLOUD TYPE 8, COVER 8
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	24.78	34.50			23.05	482.5	0.	24.78	34.50	23.05	482.5	0.000
11.	24.80	34.50			23.05	483.5	10.	24.80	34.50	23.05	483.4	0.049
50.0	24.81	34.51			23.05	484.6	20.	24.81	34.50	23.04	483.9	0.097
75.0	24.81	34.52			23.06	484.8	30.	24.81	34.50	23.04	484.3	0.146
102.	24.82	34.53			23.06	485.5	50.	24.81	34.51	23.05	484.6	0.244
128.	24.65	34.74			23.27	466.4	75.	24.81	34.52	23.06	484.8	0.366
154.	23.08*	35.00			23.93	404.4	100.	24.82	34.53	23.06	485.8	0.488
178.	21.39	35.04			24.44	356.8	150.	23.38	34.97	23.82	415.0	0.715
193.	20.39	35.05			24.72	330.7	200.	20.18	35.05	24.77	325.7	0.902
228.	19.28	34.96			24.94	310.5	250.	17.52	34.78	25.24	282.3	1.055
255.	17.09	34.73			25.30	275.9	300.	13.45	34.35	25.81	227.3	1.183
281.	15.35	34.53			25.55	252.5	400.	8.45	34.12	26.54	157.7	1.378
306.	12.84	34.29			25.89	219.5	500.	6.92	34.23	26.84	129.3	1.523
408.	8.37	34.14			26.57	154.6	600.	6.04	34.35	27.05	109.6	1.643
509.	6.86	34.24			26.86	127.5	700.	5.49	34.43	27.19	97.4	1.748
611.	5.96	34.36			27.07	107.8	800.	5.11	34.49	27.28	89.7	1.842
812.	5.07	34.49			27.28	89.1	1000.	4.30	34.52	27.39	79.1	2.013
1016.	4.24	34.52			27.40	78.5	1200.	3.68	34.55	27.48	71.1	2.165
1217.	3.63	34.55			27.49	70.5	1500.	2.98	34.57	27.56	63.3	2.370
1521.	2.95	34.57			27.57	63.0						

CROMWELL 12, STATION 3, 17-30°N LAT, 157-0°W LONG, JAN. 7, 1965, 0500 G.C.T.												
DRY BULB 25.0		WET BULB 22.0		WIND SPEED 13, DIR. 13		BAR. 11		WEATHER 02		VIS. 5		CLOUD TYPE 8, COVER 8
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	24.40	34.33			23.04	483.8	0.	24.40	34.33	23.04	483.8	0.000
9.	24.43	34.32			23.02	485.8	10.	24.44	34.32	23.02	486.2	0.049
47.	24.51	34.59			24.20	470.1	20.	24.48	34.31	23.00	488.0	0.098
50.0	24.50	34.66			23.26	464.9	30.	24.50	34.37	23.03	485.2	0.147
72.	24.48	34.83			23.39	452.9	50.	24.50	34.66	23.26	464.9	0.243
95.	23.23	34.97			23.86	408.5	75.	24.36	34.85	23.44	448.2	0.358
118.	21.64	35.08			24.40	358.3	100.	22.86	35.00	23.99	396.6	0.464
142.	20.92	35.15			24.65	335.3	150.	20.80	35.15	24.68	332.4	0.648
165.	20.40	35.17			24.77	324.9	200.	17.68	34.78	25.20	284.0	0.803
179.	19.47	35.05			24.96	307.0	250.	12.55	34.28	25.94	213.5	0.928
211.	16.59	34.62			25.34	271.1	300.	10.63	34.23	26.27	183.0	1.028
236.	13.87	34.38			25.75	231.4	400.	8.67	34.41	26.73	139.6	1.191
261.	11.73	34.22			26.05	202.7	500.	7.52	34.44	26.92	122.2	1.323
284.	11.05	34.21			26.17	191.8	600.	6.68	34.46	27.06	109.7	1.440
378.	9.00	34.40			26.67	145.4	700.	5.94	34.48	27.17	100.1	1.546
474.	7.78	34.43			26.88	126.2	800.	5.35	34.49	27.25	92.8	1.644
568.	6.94	34.46			27.02	113.3	1000.	4.50	34.52	27.37	81.5	1.820
758.	5.57	34.48			27.22	95.7	1200.	3.84	34.55	27.47	72.9	1.977
950.	4.69	34.51			27.34	84.2						
1140.	4.04	34.55			27.45	74.9						
1433.	3.28	34.57			27.54	66.4						

ΔFROM BT DATA
 *INTERPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL DRY BULB 24.4		12, STATION WET BULB 20.8		4, 16- ON LAT, 157- OW LONG, JAN. 7, 1965, 1600 G.C.T.		WIND SPEED 12, DIR. 17		8AR. 10		WEATHER 02		VIS.		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	UXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.73	34.19			22.83	503.4	0.	24.73	34.19	22.83	503.4	0.000			
9.	24.75	34.19			22.83	504.3	10.	24.76	34.22	22.84	502.7	0.051			
30.Δ	24.88	34.80			23.25	464.9	20.	24.82	34.49	23.03	485.2	0.100			
49.	24.90	34.92			23.33	457.6	30.	24.88	34.80	23.25	464.9	0.148			
72.	22.94	35.06			24.02	393.1	50.	24.83	34.93	23.36	455.3	0.241			
96.	21.22	35.13			24.55	342.9	75.	22.70	35.07	24.10	385.7	0.347			
120.	19.99	35.07			24.84	316.5	100.	20.99	35.12	24.61	337.5	0.438			
144.	18.87	35.00			25.07	294.7	150.	18.41	34.94	25.14	288.1	0.596			
168.	16.60	34.68			25.38	265.6	200.	12.72	34.22	25.86	219.8	0.724			
182.	14.78	34.42			25.59	245.6	250.	10.38	34.34	26.39	170.0	0.822			
214.	11.54	34.17			26.05	201.8	300.	9.54	34.43	26.60	150.6	0.903			
239.	10.76	34.33			26.32	176.9	400.	8.57	34.47	26.79	133.9	1.046			
262.	10.02	34.34			26.45	164.1	500.	7.05	34.43	26.98	116.3	1.173			
286.	9.65	34.40			26.56	154.1	600.	6.41	34.49	27.12	104.1	1.284			
378.	8.97	34.49			26.74	138.3	700.	5.75	34.50	27.21	95.7	1.385			
471.	7.30	34.41			26.93	120.6	800.	5.18	34.51	27.28	89.2	1.478			
562.	6.68	34.48			27.07	108.1	1000.	4.32	34.53	27.40	78.6	1.648			
747.	5.46	34.50			27.25	92.6	1200.	3.65	34.56	27.49	70.2	1.799			
931.	4.59	34.52			27.36	82.0									
1116.	3.93	34.55			27.46	73.4									
1397.	3.17	34.58			27.56	64.1									

SALINITY ERROR TERM AT 20. METERS IS 0.06

CROMWELL DRY BULB 26.0	12, STATION WET BULB 22.4	5, 14-30M LAT, 156-59W LONG, JAN. 8, 1965, 0100 G.C.T.	WIND SPEED 14, DIR. 12	8AR. 11	WEATHER 01	VIS. 7	CLOUD TYPE 4, COVER 5							
DEPTH	TEMP.	SAL.	UXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.46	34.00			22.47	538.3	0.	25.46	34.00	22.47	538.3	0.000		
10.	25.41	34.00			22.48	537.2	10.	25.41	34.00	22.48	537.2	0.054		
30.Δ	25.18	34.29			22.77	510.4	20.	25.31	34.12	22.61	525.9	0.108		
49.	24.86	34.53			23.05	484.5	30.	25.18	34.29	22.77	510.4	0.160		
75.	23.09	35.00			23.93	401.7	50.	24.81	34.55	23.08	481.7	0.260		
99.	20.76	34.93			24.53	345.5	75.	23.09	35.00	23.93	401.7	0.371		
123.	17.81	34.70			25.11	290.5	100.	20.65	34.92	24.55	343.1	0.465		
148.	14.52	34.40			25.63	240.7	150.	14.25	34.38	25.67	236.8	0.611		
172.	11.92	34.24			26.03	202.6	200.	11.09	34.34	26.26	181.4	0.716		
187.	11.38	34.26			26.15	191.7	250.	10.43	34.57	26.56	154.0	0.801		
220.	10.80	34.47			26.42	166.9	300.	9.78	34.57	26.67	144.2	0.876		
245.	10.49	34.56			26.54	155.5	400.	8.01	34.51	26.91	122.7	1.011		
271.	10.19	34.58			26.61	149.5	500.	7.02	34.48	27.03	111.9	1.129		
295.	9.87	34.57			26.66	145.4	600.	6.28	34.48	27.13	102.8	1.238		
392.	8.11	34.51			26.89	123.8	700.	5.64	34.50	27.23	94.2	1.337		
490.	7.10	34.48			27.02	112.9	800.	5.12	34.52	27.30	87.2	1.429		
582.	6.40	34.48			27.11	104.5	1000.	4.31	34.53	27.40	78.2	1.596		
776.	5.23	34.52			27.29	88.5	1200.	3.64	34.56	27.49	69.8	1.746		
974.	4.40	34.53			27.39	79.3								
1171.	3.74	34.56			27.48	70.8								
1468.	2.95	34.60			27.59	60.4								

CROMWELL DRY BULB 25.1	12, STATION WET BULB 22.5	6, 13- ON LAT, 157- OW LONG, JAN. 8, 1965, 1000 G.C.T.	WIND SPEED 14, DIR. 10	8AR. 11	WEATHER 02	VIS.	CLOUD TYPE , COVER							
DEPTH	TEMP.	SAL.	UXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.54	34.25			22.63	522.6	0.	25.54	34.25	22.63	522.6	0.000		
10.	25.56	34.25			22.63	523.6	10.	25.56	34.25	22.63	523.6	0.053		
30.Δ	25.55	34.26			22.64	523.3	20.	25.56	34.25	22.63	523.6	0.105		
50.Δ	25.54	34.27			22.65	523.1	30.	25.55	34.26	22.64	523.3	0.158		
52.	25.53	34.29			22.66	522.2	50.	25.54	34.27	22.65	523.1	0.264		
77.	21.60	34.84			24.23	373.1	75.	22.04	34.79	24.07	388.0	0.378		
101.	18.20	34.74			25.02	297.9	100.	18.41	34.75	25.00	300.2	0.465		
127.	14.58	34.46			25.67	237.0	150.	12.22	34.28	26.01	204.8	0.592		
153.	11.98	34.26			26.04	201.7	200.	10.73	34.41	26.38	169.7	0.687		
177.	10.80	34.21			26.22	185.0	250.	10.15	34.56	26.60	149.9	0.767		
192.	10.79	34.35			26.33	174.9	300.	9.54	34.59	26.73	138.5	0.840		
226.	10.43	34.53			26.53	156.2	400.	8.47	34.57	26.89	125.0	0.973		
254.	10.10	34.56			26.61	149.1	500.	7.37	34.52	27.01	113.8	1.093		
279.	9.85	34.59			26.68	143.2	600.	6.52	34.52	27.13	103.5	1.203		
304.	9.48	34.59			26.74	137.7	700.	5.80	34.52	27.22	94.8	1.303		
405.	8.43	34.57			26.89	124.5	800.	5.21	34.53	27.30	87.8	1.396		
508.	7.29	34.52			27.02	113.0	1000.	4.50	34.55	27.40	79.5	1.565		
607.	6.47	34.52			27.13	102.9	1200.	3.82	34.57	27.48	71.3	1.718		
808.	5.17	34.53			27.30	87.3	1500.	3.03	34.60	27.58	61.7	1.920		
1011.	4.47	34.55			27.40	79.1								
1212.	3.78	34.57			27.49	70.9								
1513.	3.00	34.60			27.59	61.3								

APPROX BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 12, STATION 7, 11-27N LAT, 156-55W LONG, JAN. 8, 1965, 1900 G.C.T.		DRY BULB 25.0 WET BULB 23.5 WIND SPEED 11, DIR. 10		BAR. 10 WEATHER 02		VIS. 6		CLOUD TYPE 4, COVER 9						
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.		
0.	26.07	34.43			22.60	525.3	0.	26.07	34.43	22.60	525.3	0.000		
10.	26.09	34.44			22.60	526.3	10.	26.09	34.43	22.60	526.3	0.053		
50.Δ	26.09	34.43			22.60	527.9	20.	26.11	34.43	22.59	527.2	0.106		
65.Δ	26.04	34.43			22.61	527.0	30.	26.11	34.43	22.59	527.7	0.159		
75.Δ	25.72	34.47			22.74	515.0	50.	26.09	34.43	22.60	527.9	0.265		
81.	19.50	34.78			24.74	323.9	75.	25.72	34.47	22.74	515.0	0.397		
101.	16.50	34.58			25.33	268.6	100.	16.32	34.61	25.40	262.1	0.495		
125.	13.91	34.33			25.71	232.8	150.	12.14	34.52	26.21	185.6	0.608		
151.	12.09	34.53			26.23	183.9	200.	11.24	34.71	26.53	156.3	0.694		
176.	11.56	34.70			26.46	162.4	250.	10.54	34.71	26.65	145.5	0.770		
191.	11.36	34.71			26.50	158.4	300.	10.03	34.69	26.73	139.2	0.842		
224.	10.90	34.71			26.59	151.1	400.	9.14	34.66	26.85	128.9	0.977		
251.	10.53	34.71			26.65	145.3	500.	8.19	34.60	26.95	120.2	1.103		
277.	10.23	34.70			26.70	141.5	600.	7.22	34.56	27.06	110.4	1.219		
302.	10.01	34.69			26.73	139.0	700.	6.41	34.54	27.16	101.7	1.326		
402.	9.12	34.66			26.85	128.7	800.	5.76	34.54	27.24	94.3	1.425		
503.	8.16	34.60			26.96	119.9	1000.	4.83	34.56	27.37	82.8	1.604		
603.	7.19	34.56			27.07	110.1	1200.	4.03	34.57	27.46	73.9	1.763		
803.	5.74	34.54			27.24	94.1	1500.	3.22	34.60	27.57	63.9	1.973		
1004.	4.81	34.56			27.37	82.6								
1203.	4.02	34.57			27.46	73.8								
1503.	3.21	34.60			27.57	63.8								

TEMPERATURE ERROR TERM AT 100. METERS IS 0.21

CROMWELL 12, STATION 7A, 10-0N LAT, 154-0W LONG, JAN. 9, 1965, 1700 G.C.T.		DRY BULB 24.5 WET BULB 23.5 WIND SPEED 18, DIR. 07		BAR. 09 WEATHER 21		VIS. 6		CLOUD TYPE 8, COVER 8						
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.		
0.	25.84	34.48	4.72	0.41	22.71	514.9	0.	25.84	34.48	22.71	514.9	0.000		
11.	25.85	34.48	5.03	0.33	22.71	515.6	10.	25.85	34.48	22.71	515.6	0.052		
30.Δ	25.86	34.49			22.71	515.9	20.	25.86	34.48	22.71	515.8	0.104		
51.	25.87	34.50	4.97	0.30	22.72	516.4	30.	25.86	34.49	22.71	515.9	0.156		
75.	20.21	34.79	4.84	0.41	24.57	340.7	50.	25.92	34.50	22.70	518.1	0.260		
101.	15.90	34.53	4.64	0.22	25.43	259.0	75.	20.21	34.79	24.57	340.7	0.368		
125.	12.99	34.42	2.06	1.86	25.96	208.2	100.	16.04	34.54	25.41	261.0	0.444		
150.	12.00	34.59	0.54	2.13	26.29	177.8	150.	12.00	34.59	26.29	177.8	0.554		
175.	11.54	34.70	0.26	2.28	26.46	162.0	200.	10.90	34.72	26.60	149.5	0.637		
189.	11.11	34.72	0.19	2.59	26.56	153.2	250.	10.29	34.71	26.70	141.2	0.710		
224.	10.61	34.72	0.37	2.40	26.65	145.3	300.	9.94	34.70	26.75	137.1	0.780		
250.	10.29	34.71	0.41	2.60	26.70	141.2	400.	9.23	34.66	26.83	130.5	0.915		
274.	10.11	34.71	0.40	2.46	26.73	138.6	500.	8.29	34.61	26.94	121.2	1.042		
300.	9.94	34.70	0.44	2.60	26.75	137.1	600.	7.12	34.55	27.07	109.8	1.159		
398.	9.25	34.66	0.40	3.09	26.83	130.7	700.	6.30	34.53	27.17	100.8	1.266		
499.	8.30	34.61	0.21	2.86	26.94	121.3	800.	5.68	34.54	27.25	93.2	1.364		
598.	7.14	34.55	0.36	3.00	27.07	110.0	1000.	4.68	34.56	27.38	80.9	1.540		
802.	5.67	34.54	0.62	3.16	27.25	93.1	1200.	3.91	34.58	27.48	71.7	1.694		
996.	4.70	34.56	0.98	3.33	27.38	81.1								
1197.	3.92	34.58	1.23	3.04	27.48	71.7								
1496.	3.18	34.60	1.54	2.91	27.57	63.4								

CROMWELL 12, STATION 8, 11-30N LAT, 154-1W LONG, JAN. 10, 1965, 0100 G.C.T.		DRY BULB 25.0 WET BULB 22.5 WIND SPEED 22, DIR. 08		BAR. 08 WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 7						
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.		
0.	25.10	34.05	4.33		22.62	524.2	0.	25.10	34.05	22.62	524.2	0.000		
9.	25.08	34.04	4.82	0.29	22.61	524.6	10.	25.08	34.04	22.61	524.7	0.053		
30.Δ	25.06	34.05			22.63	524.2	20.	25.07	34.04	22.62	524.5	0.106		
47.	25.05	34.06	4.84	0.34	22.64	523.8	30.	25.06	34.05	22.63	524.2	0.158		
50.Δ	25.00	34.09			22.68	520.3	50.	25.00	34.09	22.68	520.3	0.264		
72.	21.06	34.90	5.11	0.33	24.42	354.4	75.	20.72	34.91	24.52	344.8	0.373		
97.	18.40	34.73	4.12	0.66	24.99	301.3	100.	17.93	34.69	25.07	293.3	0.453		
122.	14.58	34.42	1.59	0.87	25.64	239.8	150.	12.08	34.36	26.09	196.4	0.576		
147.	12.23	34.34	2.56	1.89	26.05	200.3	200.	10.82	34.59	26.51	157.9	0.666		
171.	11.40	34.50	1.15	2.02	26.33	174.1	250.	10.13	34.65	26.68	142.7	0.741		
185.	11.12	34.56	0.77	2.47	26.43	165.0	300.	9.58	34.65	26.77	134.9	0.811		
217.	10.53	34.61	0.51	2.48	26.58	151.9	400.	8.62	34.61	26.90	124.2	0.942		
244.	10.22	34.65	0.41	2.64	26.66	144.3	500.	7.62	34.57	27.01	114.3	1.063		
267.	9.88	34.65	0.28	2.62	26.72	139.1	600.	6.72	34.55	27.12	104.2	1.173		
291.	9.66	34.65	0.38	2.11	26.76	135.9	700.	6.01	34.54	27.21	96.5	1.274		
387.	8.75	34.62	0.30	2.51	26.88	125.5	800.	5.50	34.54	27.28	90.5	1.369		
484.	7.78	34.57	0.41	2.64	26.99	116.1	1000.	4.76	34.57	27.39	81.0	1.543		
580.	6.88	34.55	0.60	2.62	27.10	106.0	1200.	4.01	34.59	27.48	72.4	1.698		
773.	5.61	34.54	0.68	3.02	27.26	91.9								
967.	4.90	34.57	1.05	3.00	27.37	82.7								
1162.	4.09	34.58	1.44	2.90	27.46	73.5								
1458.	3.19	34.60	1.66	3.04	27.57	63.3								

FROM ST DATA

Table 2.-Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 12, STATION 9, 13- 5N LAT, 154- 6W LONG, JAN. 10, 1965, 1100 G.C.T.												
DRY BULB 24.3		WET BULB 22.0		WIND SPEED 21, DIR. 09		BAR. 10		WEATHER 02		VIS. 6		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.84	34.14	4.97		22.76	510.2	0.	24.84	34.14	22.76	510.2	0.000
11.	24.85	34.14	5.14	0.56	22.76	510.9	10.	24.85	34.14	22.76	510.8	0.051
30.	24.85	34.13			22.75	512.3	20.	24.85	34.14	22.76	511.6	0.103
51.	24.85	34.13	4.97	0.31	22.75	513.1	30.	24.85	34.13	22.75	512.3	0.154
77.	21.37	34.83	5.13	0.33	24.28	367.8	50.	24.88	34.12	22.74	514.3	0.258
102.	20.17	35.07	4.77	0.38	24.79	320.4	75.	21.67	34.77	24.16	379.8	0.371
128.	17.28	34.75	4.54	0.76	25.27	274.7	100.	20.26	35.07	24.77	322.6	0.459
153.	12.71	34.27	2.90	1.70	25.90	214.6	150.	13.22	34.31	25.84	221.0	0.596
177.	11.45	34.44	1.36	2.22	26.28	179.5	200.	11.00	34.56	26.45	163.4	0.693
192.	11.10	34.52	1.05	2.11	26.40	167.8	250.	10.40	34.65	26.63	147.3	0.771
226.	10.75	34.64	0.32	2.24	26.56	153.6	300.	9.78	34.63	26.72	139.5	0.843
253.	10.35	34.65	0.23	2.36	26.64	146.6	400.	8.53	34.58	26.88	125.1	0.977
278.	9.97	34.64	0.19	2.35	26.70	141.5	500.	7.66	34.55	26.99	115.9	1.099
303.	9.76	34.63	0.15	2.60	26.72	139.3	600.	6.71	34.53	27.11	105.3	1.210
402.	8.50	34.53	0.38	2.26	26.89	124.8	700.	5.98	34.53	27.20	97.1	1.313
502.	7.64	34.55	0.41	2.64	26.99	115.8	800.	5.42	34.53	27.27	90.5	1.407
602.	6.69	34.53	0.58	2.84	27.11	105.1	1000.	4.58	34.55	27.39	80.4	1.580
800.	5.42	34.53	0.62	2.94	27.27	90.5	1200.	3.91	34.57	27.48	72.4	1.735
1000.	4.58	34.55	1.01	3.08	27.39	80.4						
1200.	3.91	34.57	1.39	2.83	27.48	72.4						
1499.	3.10	34.59	1.80	2.86	27.57	63.2						

CROMWELL 12, STATION 10, 14-35N LAT, 154-10W LONG, JAN. 10, 1965, 2000 G.C.T.													
DRY BULB 24.0		WET BULB 22.5		WIND SPEED 14, DIR. 10		BAR. 12		WEATHER 02		VIS. 6		CLOUD TYPE 4, COVER 7	
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	25.14	34.15	4.77		22.68	518.1	0.	25.14	34.15	22.68	518.1	0.000	
10.	25.16	34.15	4.96	0.63	22.67	519.1	10.	25.16	34.15	22.67	519.1	0.052	
49.	25.13	34.16	4.90	0.29	22.69	519.0	20.	25.16	34.15	22.67	519.8	0.105	
75.	25.08	34.22	4.95	0.37	22.75	514.2	30.	25.16	34.15	22.67	520.0	0.157	
99.	22.12	35.07	5.07	0.71	24.26	371.1	50.	25.16	34.15	22.68	520.3	0.262	
122.	20.21	35.07	4.54	0.36	24.78	322.1	75.	25.08	34.22	22.75	514.2	0.392	
147.	17.74	34.79	4.33	0.63	25.19	283.1	100.	22.03	35.08	24.29	368.0	0.503	
171.	15.03	34.46	3.82	0.99	25.67	247.6	150.	17.43	34.75	25.24	279.0	0.666	
185.	13.11	34.30	3.74		25.85	220.9	200.	11.96	34.27	26.05	201.7	0.787	
218.	11.30	34.34	2.05	1.84	26.23	185.1	250.	10.85	34.52	26.45	164.6	0.880	
243.	10.94	34.49	1.42	2.23	26.41	168.4	300.	10.03	34.60	26.66	145.8	0.958	
267.	10.62	34.58	0.58	2.25	26.54	156.7	400.	8.77	34.59	26.85	128.3	1.096	
291.	10.18	34.60	1.10	2.51	26.63	148.3	500.	8.00	34.58	26.96	119.2	1.221	
386.	8.89	34.59	0.90	2.87	26.83	129.9	600.	7.07	34.54	27.07	109.6	1.337	
483.	8.15	34.58	0.58	2.87	26.94	120.9	700.	6.20	34.51	27.16	101.0	1.443	
578.	7.28	34.55	0.76	3.00	27.05	111.7	800.	5.48	34.50	27.24	93.4	1.541	
770.	5.66	34.50	0.50	2.60	27.22	95.5	1000.	4.57	34.54	27.38	81.3	1.718	
963.	4.72	34.53	0.43	3.09	27.36	83.3	1200.	3.81	34.56	27.48	71.6	1.873	
1155.	4.00	34.56	1.70	3.47	27.46	73.8							
1448.	3.06	34.59	1.24	2.42	27.57	62.3							

CROMWELL 12, STATION 11, 16- 9N LAT, 154- 4W LONG, JAN. 11, 1965, 0400 G.C.T.												
DRY BULB 24.1		WET BULB 22.0		WIND SPEED 15, DIR. 09		BAR. 12		WEATHER 02		VIS. 6		CLOUD TYPE 4, COVER 7
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	25.15	34.16	4.88		22.68	517.7	0.	25.15	34.16	22.68	517.7	0.000
11.	25.15	34.16	5.01	0.91	22.68	518.1	10.	25.15	34.16	22.68	518.1	0.052
50.	25.15	34.16			22.68	519.6	20.	25.15	34.16	22.68	518.5	0.104
61.	25.15	34.16	4.85	0.31	22.68	520.1	30.	25.15	34.16	22.68	518.9	0.157
75.	25.06	34.22			22.76	513.7	50.	25.15	34.16	22.68	519.6	0.261
90.	24.98	34.32	4.70	0.27	22.86	504.7	75.	25.06	34.22	22.76	513.7	0.391
100.	23.00	34.86	5.25	0.30	23.85	410.3	100.	23.00	34.86	23.85	410.3	0.508
127.	20.27	34.76	4.84	0.47	24.53	346.2	150.	18.07	34.68	25.03	298.9	0.686
153.	17.80*	34.67	4.27	0.69	25.09	293.4	200.	13.39	34.33	25.81	224.6	0.818
176.	15.83	34.53	4.01	0.82	25.44	259.8	250.	10.56	34.34	26.36	173.2	0.919
191.	14.26	34.38	3.61	1.16	25.67	238.1	300.	9.33	34.35	26.58	152.7	1.001
226.	11.42	34.28	2.32	1.93	26.16	191.9	400.	7.38	34.31	26.84	128.1	1.142
252.	10.50	34.34	1.80	2.17	26.37	172.0	500.	6.02	34.29	27.01	112.5	1.264
279.	9.38	34.25	2.14	1.73	26.49	160.6	600.	5.85	34.44	27.15	100.3	1.371
303.	9.34	34.37	1.38	2.12	26.59	151.6	700.	5.37	34.49	27.25	91.5	1.468
403.	7.30	34.30	1.20	2.44	26.85	127.7	800.	4.78	34.49	27.32	85.2	1.558
505.	5.98	34.29	0.90	2.69	27.02	111.9	1000.	4.13	34.53	27.42	76.3	1.721
606.	5.85	34.45	0.68		27.16	99.7	1200.	3.54	34.57	27.51	68.0	1.867
807.	4.74	34.49	0.88	2.51	27.32	84.8	1500.	2.93	34.60	27.59	60.4	2.062
1007.	4.11	34.53	1.20	2.38	27.42	76.1						
1208.	3.52	34.57	1.24	2.89	27.51	67.6						
1509.	2.91	34.60	1.54	2.71	27.60	60.2						

ΔFROM BT DATA
*INTERPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 12, STATION 12, 17-32N LAT, 154- 3W LONG, JAN. 11, 1965, 1300 G.C.T.												
DRY BULB 24.3		WET BULB 22.4		WIND SPEED 18, DIR. 09		BAR. 14		WEATHER 02		VIS. 6 CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	25.01	34.18	4.94		22.74	512.2	0.	25.01	34.18	22.74	512.2	0.000
10.	25.00	34.18	5.00	0.26	22.74	512.3	10.	25.00	34.18	22.74	512.3	0.052
50.	24.99	34.18	4.76	0.70	22.75	513.5	20.	24.99	34.18	22.75	512.4	0.103
76.	25.03	34.18	4.89	0.26	22.73	515.7	30.	24.99	34.18	22.75	512.7	0.155
101.	21.85	34.56	5.14	0.37	24.02	393.6	50.	24.99	34.18	22.75	513.5	0.258
126.	20.41	35.06	4.68	0.33	24.72	328.1	75.	25.06	34.18	22.72	516.9	0.388
152.	18.0*	34.73	4.09	0.70	25.08	293.7	100.	21.99	34.64	23.97	399.0	0.503
176.	15.42	34.47	3.59	1.11	25.49	255.3	150.	18.21	34.77	25.06	295.8	0.678
191.	14.62	34.39	3.60	1.00	25.60	244.7	200.	13.94	34.32	25.70	235.9	0.812
225.	12.18	34.21	4.05	1.38	25.96	210.8	250.	11.35	34.31	26.19	189.0	0.920
252.	11.30	34.32	2.02	1.81	26.21	187.4	300.	9.60	34.30	26.49	161.1	1.008
278.	10.22	34.29	2.28	2.64	26.38	171.5	400.	8.46	34.44	26.78	134.8	1.157
303.	9.53	34.30	2.08	1.84	26.50	159.8	500.	7.54	34.44	26.92	122.2	1.287
403.	8.45	34.44	0.74	2.26	26.79	134.4	600.	6.62	34.47	27.07	108.6	1.403
504.	7.50	34.44	0.49	2.57	26.93	121.8	700.	5.86	34.48	27.18	98.6	1.508
604.	6.58	34.47	0.53	3.00	27.08	108.0	800.	5.24	34.49	27.26	91.1	1.604
804.	5.22	34.49	0.82	2.55	27.27	90.9	1000.	4.36	34.52	27.39	79.9	1.777
1005.	4.34	34.52	0.99	2.68	27.39	79.6	1200.	3.71	34.55	27.48	71.5	1.930
1205.	3.70	34.55	1.18	3.11	27.48	71.3	1500.	2.89	34.59	27.59	60.7	2.131
1506.	2.88	34.59	1.65	2.24	27.59	60.5						

CROMWELL 12, STATION 13, 18-56N LAT, 154- 0W LONG, JAN. 11, 1965, 2100 G.C.T.												
DRY BULB 23.5		WET BULB 21.8		WIND SPEED 11, DIR. 06		BAR. 15		WEATHER 15		VIS. 7		CLOUD TYPE 8, COVER 8
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.56	34.71	4.88		23.28	461.0	0.	24.56	34.71	23.28	461.0	0.000
9.	24.57	34.72	4.92	0.31	23.28	460.9	10.	24.57	34.72	23.28	461.0	0.046
46.	24.57	34.72	4.78	0.37	23.28	462.4	20.	24.57	34.72	23.28	461.2	0.093
69.	24.58	34.72	4.95	0.29	23.28	463.6	30.	24.57	34.72	23.28	461.6	0.139
75.Δ	24.52	34.93			23.45	447.0	50.	24.59	34.67	23.24	466.3	0.233
92.	24.36	35.01	4.81	0.28	23.56	437.3	75.	24.52	34.93	23.45	447.0	0.348
114.	22.82	34.97	4.80	0.24	23.98	397.9	100.	23.85	34.99	23.70	424.5	0.458
138.	21.90*	35.20	5.02	0.20	24.42	357.3	150.	21.49	35.23	24.55	344.9	0.651
160.	21.11	35.21	4.65	0.38	24.64	336.6	200.	19.02	34.93	24.98	305.2	0.815
174.	20.39	35.12	4.54	0.31	24.77	324.9	250.	14.32	34.41	25.68	238.6	0.952
205.	18.69	34.89	4.27	1.12	25.03	300.3	300.	11.57	34.18	26.05	203.7	1.064
229.	16.36	34.66	4.32	0.64	25.42	263.6	400.	7.95	34.13	26.62	149.7	1.242
253.	14.06	34.38	4.50	0.80	25.71	235.7	500.	6.35	34.19	26.89	124.0	1.380
284.	12.36	34.22	4.08	1.15	25.93	214.9	600.	5.74	34.29	27.05	109.7	1.498
368.	8.85	34.13	3.04	1.60	26.48	162.8	700.	5.31	34.40	27.18	97.8	1.603
460.	6.78	34.16	1.64	2.24	26.81	131.6	800.	4.94	34.47	27.28	89.0	1.698
551.	6.01	34.24	0.98	2.49	26.97	116.6	1000.	4.24	34.52	27.40	78.2	1.867
737.	5.19	34.43	0.72	3.05	27.22	94.2	1200.	3.65	34.56	27.49	70.2	2.017
922.	4.49	34.51	0.86	2.29	27.37	81.4						
1110.	3.92	34.53	1.06	2.84	27.44	74.7						
1395.	3.18	34.57	1.39	2.53	27.55	64.9						

CROMWELL 12, STATION 14, 20-30N LAT, 154- 1W LONG, JAN. 12, 1965, 0600 G.C.T.												
DRY BULB 24.0		WET BULB 21.4		WIND SPEED 16, DIR. 12		BAR. 14		WEATHER 01		VIS.		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.54	34.59	4.89		23.19	469.1	0.	24.54	34.59	23.19	469.1	0.000
9.	24.58	34.57	5.06	0.43	23.18	470.6	10.	24.58	34.59	23.18	470.5	0.047
46.	24.57	34.70	4.92	0.49	23.27	463.8	20.	24.59	34.61	23.19	469.6	0.095
70.	24.62	34.79	5.09	0.28	23.32	459.7	30.	24.59	34.64	23.22	468.0	0.142
93.	23.92	35.02	4.91		23.70	424.1	50.	24.60	34.71	23.26	464.3	0.236
116.	22.84	35.03	4.88	0.27	24.02	394.2	75.	24.52	34.84	23.39	453.1	0.351
140.	21.49	35.08	4.80	0.32	24.44	355.2	100.	23.62	35.03	23.80	415.1	0.461
162.	20.51	35.10	4.57	0.36	24.72	329.0	150.	21.05	35.10	24.58	342.3	0.652
176.	19.75	35.02	4.43	0.48	24.86	316.0	200.	18.30	34.85	25.10	294.0	0.812
207.	17.84	34.77	4.24	0.67	25.17	287.4	250.	15.04	34.68	25.58	248.6	0.949
232.	16.02	34.58	4.28	0.72	25.44	267.0	300.	12.11	34.24	26.00	208.8	1.064
256.	14.72	34.45	4.44	0.80	25.63	244.3	400.	9.39	34.27	26.50	161.7	1.251
279.	13.13	34.30	4.31	1.22	25.84	223.7	500.	7.68	34.31	26.80	133.7	1.400
372.	9.92	34.23	2.55	2.78	26.40	171.4	600.	6.04	34.32	27.03	112.0	1.524
466.	8.38	34.32	1.54	2.62	26.70	143.3	700.	5.23	34.38	27.17	98.4	1.630
559.	6.53	34.30	1.22	2.36	26.95	119.3	800.	4.79	34.44	27.27	89.4	1.725
746.	5.04	34.41	0.82	2.53	27.22	93.9	1000.	4.10	34.51	27.41	77.3	1.894
935.	4.32	34.49	1.06	2.69	27.37	80.9	1200.	3.49	34.55	27.51	68.4	2.042
1124.	3.71	34.54	1.35	2.53	27.47	71.5						
1414.	2.97	34.57	1.65	2.96	27.57	62.5						

TEMPERATURE ERROR TEMP AT 300. METERS IS 0.10

FROM BT DATA
*INTERPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 12, STATION 15, 22- IN LAT, 153-59W LONG, JAN. 12, 1965, 1600 G.C.T.												
DRY BULB 23.0		WET BULB 20.8		WIND SPEED 17, DIR. 13		BAR. 14		WEATHER 02		VIS. 6		
										CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.54	34.53	4.88		23.18	469.8	0.	24.54	34.58	23.18	469.8	0.000
10.	24.60	34.58	5.06	0.33	23.17	471.9	10.	24.60	34.58	23.17	471.9	0.047
50.	24.38	34.63	4.88	0.29	23.27	463.6	20.	24.59	34.56	23.15	473.6	0.095
76.	24.13	35.01	5.06	0.26	23.63	430.1	30.	24.55	34.56	23.17	472.7	0.143
100.	23.69	35.10	4.92	0.22	23.83	412.1	50.	24.38	34.63	23.27	463.6	0.237
125.	22.88	35.27	4.88	0.26	24.19	378.4	75.	24.14	35.00	23.62	431.5	0.350
152.	21.32	35.15	4.72	0.29	24.54	346.1	100.	23.69	35.10	23.83	412.1	0.456
175.	19.89	35.07	4.46	0.40	24.86	315.9	150.	21.45	35.16	24.51	348.4	0.648
190.	19.27	35.01	4.42	0.80	24.99	304.1	200.	18.68	34.95	25.08	295.9	0.810
223.	17.24	34.76	4.44	0.48	25.29	276.1	250.	15.29	34.51	25.55	251.9	0.948
251.	15.22	34.50	4.38	2.18	25.56	251.0	300.	12.24	34.22	25.96	212.8	1.065
277.	13.53	34.33	4.42	2.44	25.79	229.3	400.	9.16	34.09	26.40	171.2	1.259
301.	12.19	34.22	4.61	1.62	25.97	212.2	500.	6.75	34.03	26.71	141.4	1.417
400.	9.16	34.09	4.12	1.55	26.40	171.2	600.	5.50	34.12	26.94	119.6	1.549
501.	6.73	34.03	2.63	1.89	26.71	141.1	700.	4.89	34.25	27.11	103.7	1.662
602.	5.48	34.12	1.28		26.94	119.2	800.	4.59	34.37	27.24	91.9	1.760
801.	4.59	34.37	0.85		27.24	91.8	1000.	4.06	34.49	27.40	78.4	1.933
1003.	4.05	34.49	1.10	3.13	27.40	78.3	1200.	3.53	34.53	27.48	70.6	2.084
1203.	3.52	34.53	1.28	3.44	27.48	70.6	1500.	2.85	34.58	27.59	60.8	2.284
1503.	2.84	34.58	1.66	2.91	27.59	60.8						

CROMWELL 17, STATION 16, 23-30N LAT, 153-53W LONG, JAN. 12, 1965, 2400 G.C.T.													
DRY BULB 24.2		WET BULB 21.0		WIND SPEED 14, DIR. 16		BAR. 13		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	DXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.52	35.08	5.07		23.86	405.0	0.	23.52	35.08	23.86	405.0	0.000	
10.	23.52	35.07	5.01	0.68	23.86	406.1	10.	23.52	35.07	23.86	406.1	0.041	
52.	23.35	35.17	4.90	0.24	23.98	395.7	20.	23.52	35.08	23.87	405.5	0.082	
77.	22.97	35.24	4.96	0.20	24.14	381.2	30.	23.49	35.10	23.89	403.8	0.122	
102.	21.70	35.24	4.90	0.34	24.50	347.8	50.	23.37	35.16	23.97	396.7	0.203	
127.	20.73	35.17	4.65	0.43	24.72	328.4	75.	23.02	35.24	24.13	382.8	0.301	
152.	19.48	35.08	4.76	0.39	24.98	304.1	100.	21.81	35.24	24.47	350.5	0.394	
178.	18.20	34.90	4.54	0.44	25.16	287.0	150.	19.58	35.09	24.96	306.0	0.559	
194.	17.44	34.80	4.70	0.44	25.27	276.9	200.	17.10	34.75	25.32	272.8	0.705	
228.	15.36	34.52	4.65	1.53	25.54	251.9	250.	14.00	34.39	25.74	233.6	0.833	
282.	13.88	34.38	4.94	1.69	25.75	232.0	300.	12.00	34.24	26.02	207.0	0.944	
282.	12.45	34.26	5.00	1.78	25.95	213.6	400.	9.83	34.12	26.31	180.1	1.139	
305.	11.90	34.24	4.86		26.04	205.4	500.	7.29	34.08	26.67	145.4	1.303	
407.	9.68	34.11	4.66	1.20	26.33	178.4	600.	5.79	34.19	26.96	118.4	1.437	
505.	7.17	34.08	2.80	2.01	26.69	143.7	700.	4.98	34.28	27.13	102.3	1.548	
610.	5.69	34.20	1.11	2.69	26.98	116.1	800.	4.51	34.35	27.24	92.2	1.646	
813.	4.48	34.36	0.90	3.13	27.25	91.3	1000.	4.00	34.48	27.40	78.2	1.819	
1016.	3.97	34.49	1.12	2.99	27.41	77.4	1200.	3.50	34.52	27.48	71.1	1.970	
1217.	3.46	34.52	1.32	2.51	27.48	70.7	1500.	2.90	34.58	27.58	61.5	2.172	
1520.	2.86	34.58	1.64		27.58	61.1							

CROMWELL 17, STATION 17, 23-24N LAT, 150-58W LONG, JAN. 13, 1965, 1600 G.C.T.												
DRY BULB 22.9		WET BULB 20.2		WIND SPEED 24, DIR. 16		BAR. 12		WEATHER 02		VIS.		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.07	35.15			24.05	387.4	0.	23.07	35.15	24.05	387.4	0.000
10.	23.07	35.15			24.05	387.8	10.	23.07	35.15	24.05	387.8	0.039
30.Δ	23.07	35.15			24.05	388.6	20.	23.07	35.15	24.05	388.3	0.078
49.	23.03	35.15			24.06	388.2	30.	23.07	35.15	24.05	388.6	0.117
75.	22.59	35.43			24.32	364.2	50.	23.02	35.16	24.07	387.4	0.195
99.	22.15	35.29			24.42	356.1	75.	22.59	35.33	24.32	364.2	0.290
124.	20.68	35.25			24.79	321.2	100.	22.09	35.29	24.43	354.7	0.381
149.	19.88	35.18			24.95	306.8	150.	19.84	35.17	24.96	306.2	0.547
172.	18.94	35.04			25.09	294.4	200.	17.88	34.89	25.23	281.2	0.695
187.	18.59	35.00			25.14	289.4	250.	14.98	34.48	25.59	247.4	0.828
220.	16.59	34.68			25.38	267.0	300.	12.24	34.24	25.97	211.9	0.944
246.	15.26	34.51			25.56	251.0	400.	9.24	34.08	26.38	173.1	1.139
271.	13.55	34.34			25.79	228.8	500.	6.59	34.03	26.74	138.9	1.296
295.	12.43	34.25			25.94	214.3	600.	5.37	34.13	26.97	116.8	1.425
393.	9.46	34.09			26.35	175.9	700.	4.78	34.26	27.13	101.3	1.535
491.	6.75	34.03			26.71	141.3	800.	4.48	34.37	27.26	90.3	1.632
589.	5.46	34.12			26.95	118.8	1000.	3.90	34.49	27.41	76.6	1.801
785.	4.53	34.36			27.24	91.6	1200.	3.39	34.55	27.51	67.4	1.947
982.	3.95	34.48			27.40	77.6						
1179.	3.44	34.54			27.50	68.7						
1475.	2.83	34.58			27.59	60.5						

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA						
CROMWELL 12, STATION 13, 21-56N LAT, 150-54W LONG, JAN. 14, 1965, 0200 G.C.T.														
DRY BULB 24.1		WET BULB 21.1		WIND SPEED 18, DIR. 16		BAR. 11		WEATHER 02		VIS. 6		CLOUD TYPE 6, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	23.62	34.83			23.68	422.2	0.	23.62	34.88	23.68	422.2	0.000		
10.	23.65	34.88			23.67	423.4	10.	23.65	34.88	23.67	423.4	0.043		
30.Δ	23.58	34.94			23.74	417.9	20.	23.64	34.91	23.70	421.5	0.085		
50.	23.36	34.99			23.34	408.9	30.	23.58	34.94	23.74	417.9	0.127		
76.	23.18	35.04			23.93	401.3	50.	23.36	34.99	23.84	408.9	0.211		
100.	22.82	35.07			24.06	390.2	75.	23.19	35.04	23.93	401.6	0.313		
125.	21.68	35.29			24.55	344.5	100.	22.82	35.07	24.06	390.2	0.413		
151.	19.34	34.97			24.93	308.6	150.	19.43	34.99	24.92	309.6	0.589		
175.	18.36	34.86			25.09	293.6	200.	16.67	34.65	25.34	270.8	0.735		
190.	17.36	34.74			25.25	279.3	250.	12.95	34.23	25.83	224.6	0.860		
223.	15.02	34.43			25.55	251.1	300.	10.49	34.08	26.17	192.0	0.965		
250.	12.95	34.23			25.83	224.6	400.	7.78	34.04	26.57	153.7	1.139		
276.	11.67	34.14			26.00	207.8	500.	5.99	34.09	26.86	126.7	1.281		
300.	10.49	34.08			26.17	192.0	600.	5.44	34.23	27.04	110.4	1.401		
399.	7.80	34.04			26.57	154.1	700.	4.98	34.35	27.18	97.2	1.506		
499.	6.00	34.09			26.86	126.9	800.	4.60	34.43	27.29	87.3	1.599		
598.	5.45	34.23			27.03	110.7	1000.	4.05	34.51	27.41	76.6	1.765		
796.	4.61	34.43			27.29	87.6	1200.	3.52	34.55	27.50	68.9	1.912		
995.	4.06	34.51			27.41	76.8								
1194.	3.52	34.54			27.49	69.8								
1493.	2.84	34.59			27.59	60.0								

CROMWELL 12, STATION 19, 20-29N LAT, 151- 2W LONG, JAN. 14, 1965, 1100 G.C.T.														
DRY BULB 23.0		WET BULB 21.0		WIND SPEED 12, DIR. 17		BAR. 13		WEATHER 03		VIS.		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	23.86	34.79			23.54	435.4	0.	23.86	34.79	23.54	435.4	0.000		
10.	23.88	34.79			23.54	436.3	10.	23.88	34.79	23.54	436.3	0.044		
30.Δ	23.86	34.80			23.55	435.8	20.	23.88	34.79	23.53	437.1	0.088		
51.	23.72	34.96			23.71	421.2	30.	23.86	34.80	23.55	435.8	0.132		
75.	23.37	35.13			23.95	400.1	50.	23.73	34.95	23.70	422.1	0.218		
100.	22.74	35.16			24.15	381.5	75.	23.37	35.13	23.95	400.1	0.322		
124.	21.25	35.19			24.59	340.3	100.	22.74	35.16	24.15	381.5	0.420		
150.	20.29	35.16			24.83	318.6	150.	20.29	35.16	24.83	318.6	0.597		
173.	19.30	35.05			25.00	302.6	200.	17.62	34.81	25.24	280.3	0.748		
187.	18.49	34.94			25.12	291.3	250.	13.45	34.30	25.78	229.3	0.876		
221.	16.00	34.59			25.45	260.5	300.	11.10	34.14	26.10	198.6	0.984		
247.	13.67	34.32			25.75	232.1	400.	7.74	34.07	26.60	151.1	1.160		
272.	12.11	34.19			25.96	212.2	500.	5.97	34.10	26.86	126.1	1.300		
297.	11.22	34.14			26.09	200.2	600.	5.15	34.22	27.06	107.5	1.418		
394.	7.89	34.07			26.58	153.1	700.	4.69	34.35	27.22	93.6	1.520		
494.	6.04	34.09			26.85	127.4	800.	4.42	34.45	27.32	84.0	1.610		
591.	5.20	34.21			27.05	108.9	1000.	3.92	34.51	27.43	74.9	1.770		
788.	4.45	34.44			27.31	84.8	1200.	3.43	34.56	27.51	67.5	1.915		
985.	3.96	34.51			27.42	75.5								
1182.	3.45	34.55			27.51	68.1								
1479.	2.87	34.59			27.59	60.3								

CROMWELL 12, STATION 20, 18-59N LAT, 151- 6W LONG, JAN. 14, 1965, 2000 G.C.T.														
DRY BULB 23.3		WET BULB 20.9		WIND SPEED 16, DIR. 17		BAR. 13		WEATHER 15		VIS. 6		CLOUD TYPE 9, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	23.85	34.48			23.31	457.5	0.	23.85	34.48	23.31	457.5	0.000		
10.	23.88	34.48			23.30	458.7	10.	23.88	34.48	23.30	458.7	0.046		
30.Δ	23.87	34.48			23.31	459.2	20.	23.88	34.48	23.30	459.1	0.092		
51.	23.87	34.48			23.31	460.0	30.	23.87	34.48	23.31	459.2	0.139		
75.Δ	23.00	34.75			23.76	417.2	50.	23.88	34.48	23.30	460.4	0.231		
84.	22.19	34.90			24.11	384.7	75.	23.00	34.75	23.76	417.2	0.342		
99.	21.13	34.89			24.39	358.0	100.	21.08	34.89	24.41	356.8	0.439		
124.	20.30	34.92			24.64	335.3	150.	19.90	35.08	24.87	314.6	0.608		
150.	19.90	35.08			24.87	314.6	200.	17.31	34.72	25.24	280.3	0.758		
175.	18.73	34.94			25.06	296.7	250.	14.01	34.34	25.70	237.3	0.889		
189.	17.92	34.80			25.16	287.9	300.	10.74	34.15	26.18	191.3	0.997		
221.	16.07	34.57			25.42	263.5	400.	8.20	34.24	26.67	145.0	1.167		
246.	14.26	34.37			25.65	240.3	500.	6.38	34.21	26.90	123.0	1.302		
272.	12.65	34.23			25.89	219.4	600.	5.88	34.34	27.06	108.4	1.419		
294.	11.02	34.15			26.13	195.9	700.	5.39	34.41	27.18	97.7	1.523		
390.	8.45	34.25			26.64	148.1	800.	4.95	34.46	27.27	89.8	1.618		
488.	6.49	34.20			26.88	125.1	1000.	4.18	34.51	27.40	78.5	1.788		
584.	5.96	34.32			27.04	110.4	1200.	3.57	34.56	27.50	69.2	1.938		
779.	5.04	34.45			27.26	91.3								
974.	4.27	34.50			27.38	79.9								
1169.	3.66	34.55			27.48	70.5								
1466.	2.94	34.58			27.58	61.8								

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 17, STATION 21, 17-26N LAT, 151- 2W LONG, JAN. 15, 1965, 0400 G.C.T.												
DRY BULB 23.9		WET BULB 21.1		WIND SPEED 13, DIR. 16		BAR. 11	WEATHER 01		VIS. 7	CLOUD TYPE 8, COVER 1		
DEPTH	TEMP.	SAL.	XY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	24.38	34.32			23.04	484.0	0.	24.38	34.32	23.04	484.0	0.000
11.	24.34	34.34			23.06	481.8	10.	24.34	34.34	23.06	482.2	0.049
30. Δ	24.20	34.48			23.21	468.5	20.	24.27	34.40	23.13	476.1	0.097
50.	24.14	34.64			23.34	457.2	30.	24.20	34.48	23.21	468.5	0.145
75.	24.14	34.91			23.49	443.3	50.	24.18	34.64	23.34	457.2	0.238
99.	22.80	35.08			24.05	391.1	75.	24.34	34.91	23.49	443.3	0.351
123.	20.94	35.08			24.59	340.2	100.	22.80	35.08	24.07	388.6	0.456
148.	19.74	35.01			24.85	316.0	150.	19.67	35.00	24.87	314.3	0.633
171.	18.33	34.86			25.10	292.7	200.	15.44	34.49	25.50	255.3	0.777
185.	16.84	34.65			25.30	273.8	250.	11.30	34.16	26.09	198.7	0.891
248.	13.88	34.34			25.72	234.0	300.	9.82	34.14	26.33	176.5	0.986
244.	11.60	34.18			26.05	202.9	400.	8.15	34.29	26.72	140.4	1.146
269.	10.62	34.14			26.19	189.1	500.	7.34	34.41	26.93	121.8	1.278
293.	9.94	34.13			26.30	179.5	600.	6.44	34.44	27.08	107.9	1.394
390.	8.25	34.28			26.69	142.9	700.	5.76	34.47	27.18	98.5	1.498
488.	7.45	34.40			26.90	123.8	800.	5.25	34.48	27.26	91.7	1.594
585.	6.55	34.44			27.06	109.6	1000.	4.47	34.52	27.38	81.0	1.769
781.	5.34	34.48			27.24	92.9	1200.	3.73	34.54	27.47	72.1	1.924
977.	4.56	34.52			27.37	82.1	1500.	2.96	34.58	27.58	61.9	2.128
1174.	3.81	34.54			27.46	73.1	2000.	2.16	34.64	27.69	50.8	2.414
1472.	3.02	34.58			27.57	62.8						
2019.	2.14	34.64			27.69	50.6						
2048.	2.10	34.64			27.70	50.2						
2417.	1.87	34.66			27.74	46.7						

CROMWELL 12, STATION 22, 15-58N LAT, 151- 0W LONG, JAN. 15, 1965, 1500 G.C.T.												
DRY BULB 23.0 WET BULB 21.4 WIND SPEED 05, DIR. 16 BAR. 11 WEATHER 01 VIS. 7 CLOUD TYPE 8, COVER 1												
DEPTH	TEMP.	SAL.	XY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	24.51	34.09			22.82	504.3	0.	24.51	34.09	22.82	504.3	0.000
10.	24.52	34.08			22.91	505.7	10.	24.52	34.08	22.81	505.7	0.051
30.Δ	24.51	34.07			22.81	506.9	20.	24.52	34.07	22.81	506.5	0.102
51.	24.47	34.07			22.82	506.5	30.	24.51	34.07	22.81	506.9	0.153
75.	23.28	34.64			23.60	432.9	50.	24.48	34.06	22.81	507.3	0.255
99.	21.90	34.78			24.10	386.2	75.	23.28	34.64	23.60	432.9	0.373
124.	20.17	34.95			24.70	329.9	100.	21.83	34.79	24.13	383.7	0.476
148.	19.09	34.93			24.96	305.2	150.	18.87	34.90	25.00	301.9	0.649
172.	16.04	34.55			25.41	262.8	200.	13.01	34.26	25.83	222.5	0.781
187.	14.12	34.35			25.68	237.3	250.	10.55	34.24	26.28	180.3	0.883
220.	11.87	34.21			26.02	205.0	300.	9.64	34.32	26.51	159.8	0.969
244.	10.84	34.24			26.23	185.0	400.	8.70	34.47	26.77	135.7	1.118
269.	9.82	34.24			26.41	168.3	500.	7.37	34.47	26.97	117.8	1.246
294.	9.68	34.31			26.49	161.4	600.	6.44	34.46	27.09	106.8	1.359
393.	8.79	34.47			26.76	137.3	700.	5.75	34.47	27.19	97.9	1.462
491.	7.47	34.47			26.96	119.0	800.	5.22	34.49	27.27	90.7	1.558
589.	6.53	34.46			27.08	107.9	1000.	4.42	34.53	27.39	79.7	1.730
786.	5.29	34.49			27.26	91.6	1200.	3.77	34.56	27.48	71.5	1.883
983.	4.48	34.53			27.38	80.4						
1181.	3.92	34.55			27.47	72.6						
1476.	3.14	34.59			27.57	63.5						

CROMWELL 12, STATION 23, 14-50N LAT, 151- 4W LONG, JAN. 16, 1965, 0200 G.C.T.												
DRY BULB 24.9 WET BULB 22.0 WIND SPEED 07, DIR. 14 BAR. 11 WEATHER 02 VIS. 7 CLOUD TYPE 8, COVER 3												
DEPTH	TEMP.	SAL.	LXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	25.29	34.07			22.58	528.0	0.	25.28	34.07	22.58	528.0	0.000
10.	24.83	34.07			22.71	515.3	10.	24.83	34.07	22.71	515.3	0.053
20.Δ	24.80	34.07			22.72	514.8	20.	24.80	34.07	22.72	514.8	0.104
30.Δ	24.78	34.07			22.73	514.6	30.	24.78	34.07	22.73	514.6	0.156
50.	24.78	34.07			22.73	515.4	50.	24.78	34.07	22.73	515.4	0.260
76.	24.80	34.07			22.72	517.0	75.	24.86	34.06	22.70	518.9	0.390
101.	19.09	34.65			24.75	323.9	100.	19.34	34.63	24.67	331.6	0.497
126.	16.83	34.62			25.28	273.9	150.	13.94	34.37	25.73	231.0	0.639
152.	13.70	34.35			25.77	227.9	200.	11.25	34.46	26.33	175.0	0.742
177.	11.63	34.28			26.12	194.5	250.	10.47	34.60	26.58	152.1	0.824
192.	11.40	34.40			26.26	181.9	300.	9.62	34.57	26.70	141.1	0.898
226.	10.74	34.59			26.52	157.5	400.	8.67	34.58	26.86	127.5	1.033
253.	10.43	34.60			26.58	151.7	500.	7.57	34.53	26.99	115.9	1.156
278.	9.96	34.59			26.66	145.0	600.	6.70	34.52	27.10	106.0	1.268
304.	9.56	34.57			26.71	140.5	700.	5.96	34.53	27.21	96.1	1.370
405.	8.63	34.58			26.07	126.9	800.	5.33	34.55	27.30	88.0	1.464
506.	7.50	34.53			27.00	115.2	1000.	4.42	34.50	27.37	81.9	1.635
607.	6.65*	34.52			27.11	105.4	1200.	3.86	34.56	27.48	72.1	1.791
809.	5.23	34.55			27.31	87.3	1500.	3.10	34.60	27.58	62.7	1.996
1011.	4.38	34.50			27.37	81.7						
1212.	3.83	34.57			27.48	71.5						
1515.	3.07	34.60			27.58	62.2						

ΔFROM BT DATA
*INTERPOLATED DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA						
CROMWELL 12, STATION 24, 13- ON LAT, 150-59W LONG, JAN. 16, 1965, 1200 G.C.T.													
DRY BULB 24.0		WET BULB 21.5		WIND SPEED 10, DIR. 09		BAR. 12		WEATHER 01		VIS. 6		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CLY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.98	34.17			22.74	512.0	0.	24.98	34.17	22.74	512.0	0.000	
10.	24.98	34.17			22.74	512.4	10.	24.98	34.17	22.74	512.4	0.052	
30.Δ	24.90	34.17			22.77	510.9	20.	24.94	34.17	22.75	511.8	0.103	
51.	24.85	34.17			22.78	510.3	30.	24.90	34.17	22.77	510.9	0.155	
77.	18.65	34.58			24.81	317.5	50.	24.90	34.17	22.76	512.0	0.258	
101.	15.35	34.43			25.47	254.5	75.	19.20	34.55	24.65	332.9	0.364	
126.	13.76	34.40			25.79	224.7	100.	15.45	34.44	25.46	255.8	0.438	
151.	11.55	34.42			26.24	182.2	150.	11.63	34.42	26.23	183.7	0.549	
176.	11.35	34.61			26.43	165.2	200.	10.79	34.61	26.53	155.6	0.635	
191.	10.92	34.60			26.50	158.7	250.	10.19	34.65	26.67	143.9	0.710	
224.	10.57	34.66			26.61	149.0	300.	9.73	34.64	26.74	138.0	0.781	
251.	10.18	34.65			26.67	143.7	400.	8.58	34.59	26.88	125.3	0.914	
277.	9.94	34.65			26.71	140.3	500.	7.46	34.54	27.01	113.8	1.035	
301.	9.72	34.64			26.74	137.9	600.	6.52	34.51	27.12	104.2	1.145	
400.	8.58	34.59			26.88	125.3	700.	5.79	34.52	27.22	95.0	1.245	
501.	7.45	34.54			27.01	113.7	800.	5.22	34.54	27.31	87.2	1.337	
600.	6.52	34.51			27.12	104.2	1000.	4.42	34.55	27.41	78.4	1.505	
800.	5.22	34.54			27.31	87.2	1200.	3.79	34.58	27.50	70.1	1.655	
1000.	4.42	34.55			27.41	78.4	1500.	3.09	34.61	27.59	61.6	1.856	
1200.	3.79	34.58			27.50	70.1							
1500.	3.09	34.61			27.59	61.6							

TEMPERATURE ERROR TERM AT 75. METERS IS 0.11

CROMWELL 12, STATION 25, 11-31N LAT, 150-56W LONG, JAN. 16, 1965, 2100 G.C.T. DRY BULB 25.1 WET BULB 22.1 WIND SPEED 16, DIR. 06 BAR. 13 WEATHER 01 VIS. 8 CLOUD TYPE 8, COVER 2												
DEPTH	TEMP.	SAL.	CLY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.04	34.34			22.85	501.5	0.	25.04	34.34	22.85	501.5	0.000
9.	25.04	34.33			22.84	502.6	10.	25.04	34.33	22.85	502.4	0.051
30.Δ	25.00	34.44			22.94	494.3	20.	25.03	34.38	22.88	499.4	0.101
49.	24.92	34.55			23.05	484.8	30.	25.00	34.44	22.94	494.3	0.151
74.	17.09	34.59			25.19	281.0	50.	24.66	34.55	23.13	476.9	0.249
98.	13.06	34.37			25.91	212.5	75.	16.87	34.57	25.24	276.5	0.344
122.	10.98	34.21			26.18	186.9	100.	12.81	34.35	25.94	209.5	0.405
147.	11.11	34.55			26.42	164.7	150.	11.07	34.56	26.44	163.1	0.499
170.	10.74	34.60			26.53	155.1	200.	10.44	34.65	26.62	146.8	0.577
184.	10.58	34.64			26.59	149.8	250.	9.98	34.66	26.71	139.5	0.649
218.	10.29	34.65			26.65	144.9	300.	9.58	34.66	26.78	134.2	0.718
245.	10.02	34.66			26.70	140.2	400.	8.56	34.61	26.90	123.8	0.848
269.	9.82	34.66			26.74	137.4	500.	7.50	34.57	27.03	112.4	0.968
293.	9.64	34.66			26.77	134.9	600.	6.58	34.54	27.13	102.9	1.076
391.	8.66	34.61			26.89	124.9	700.	5.84	34.53	27.23	94.6	1.176
492.	7.58	34.57			27.02	113.2	800.	5.26	34.54	27.30	87.7	1.268
592.	6.65	34.54			27.13	103.7	1000.	4.49	34.56	27.41	78.5	1.437
794.	5.29	34.54			27.30	88.0	1200.	3.74	34.58	27.50	69.5	1.586
996.	4.51	34.56			27.40	78.7	1500.	3.05	34.60	27.58	61.8	1.786
1196.	3.75	34.58			27.50	69.6	2000.	2.19	34.64	27.69	51.0	2.073
1499.	3.05	34.60			27.58	61.8	2500.	1.91	34.66	27.73	48.2	2.326
1951.	2.24	34.64			27.69	51.5	3000.	1.71	34.67	27.75	46.2	2.567
2326.	1.99	34.65			27.71	49.2						
2703.	1.83	34.67			27.74	47.1						
3459.	1.60	34.68			27.77	45.6						

CROMWELL 12, STATION 26, 10- 54 LAT, 148- 34 LONG, JAN. 17, 1965, 1700 G.C.T.												
DRY BULB 24.5		WET BULB 22.7		WIND SPEED 16, DIR. 04		BAR. 13		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 5
DEPTH	TEMP.	SAL.	CLY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.74	34.46	4.94		22.13	513.4	0.	25.74	34.46	22.73	513.4	0.000
10.	25.78	34.46	4.64	1.08	22.12	514.9	10.	25.78	34.46	22.72	514.9	0.052
20.Δ	25.66	34.46			22.75	511.8	20.	25.66	34.46	22.75	511.8	0.103
30.Δ	25.00	34.49			22.98	490.7	30.	25.00	34.49	22.98	490.7	0.154
51.	19.49	34.70	4.95	0.57	24.71	325.9	50.	19.71	34.69	24.62	334.2	0.237
76.	14.32	34.31	4.01	0.96	25.61	241.2	75.	14.48	34.33	25.59	243.0	0.310
91.	12.71	34.27	2.64		25.89	214.3	100.	12.29	34.35	26.04	199.9	0.366
126.	11.63	34.63	0.44		26.39	167.6	150.	11.17	34.72	26.54	153.5	0.455
151.	11.16	34.72	0.40		26.55	153.2	200.	10.54	34.72	26.66	143.9	0.530
177.	10.82	34.73	0.38		26.62	147.1	250.	10.09	34.70	26.72	138.5	0.601
191.	10.61	34.72	0.45	2.44	26.64	144.9	300.	9.78	34.70	26.78	134.3	0.670
226.	10.33	34.71	0.41	2.76	26.69	141.3	400.	8.92	34.64	26.87	126.7	0.801
250.	10.29	34.70	0.40	2.51	26.72	138.5	500.	7.90	34.59	26.99	116.5	0.924
278.	9.73	34.71	0.46	2.40	26.76	135.7	600.	6.91	34.54	27.09	107.3	1.037
303.	9.76	34.70	0.37	2.73	26.78	134.2	700.	6.08	34.53	27.19	98.1	1.141
404.	8.48	34.64	0.48	2.38	26.88	126.4	800.	5.41	34.54	27.28	89.8	1.236
505.	7.85	34.59	0.19	2.64	26.99	116.0	1000.	4.48	34.56	27.41	78.5	1.406
605.	6.96	34.54	0.36	3.33	27.10	106.8	1200.	3.80	34.58	27.49	70.3	1.557
810.	5.35	34.54	0.64	2.67	27.29	89.0	1500.	3.03	34.60	27.58	61.7	1.758
1009.	4.45	34.56	1.12	2.87	27.41	78.1						
1210.	3.77	34.58	1.47	3.13	27.50	70.0						
1512.	3.01	34.60	1.90	3.27	27.54	61.4						

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 12, STATION 27, 11-30N LAT, 148- 3W LONG, JAN. 18, 1965, 0100 G.C.T.												
DRY BULB 24.7 WET BULB 22.9 WIND SPEED 12, DIR. 04 BAR. 12 WEATHER 02 VIS. 7 CLOUD TYPE 4, COVER 6												
DEPTH	TEMP.	SAL.	DXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	24.7	34.20	4.90		22.84	503.0	0.	24.74	34.20	22.84	503.0	0.000
10.	24.72	34.20	5.02	0.8	22.84	502.8	10.	24.72	34.20	22.84	502.8	0.051
30.	24.42	34.27			22.99	489.9	20.	24.65	34.22	22.88	500.1	0.101
52.	22.94	34.49	5.20	0.1	23.66	426.3	30.	24.42	34.27	22.99	489.9	0.151
78.	20.25	34.92	4.94	0.79	24.65	332.4	50.	23.11	34.56	23.59	433.4	0.244
103.	16.04	34.48	3.89	0.88	25.36	265.8	75.	20.63	34.90	24.54	343.2	0.342
128.	13.38	34.45	1.54	1.24	25.91	213.6	100.	16.55	34.54	25.29	272.4	0.419
154.	12.09	34.64	0.38	1.62	26.33	174.4	150.	12.22	34.62	26.27	179.3	0.533
179.	11.38	34.72	0.30	2.44	26.51	157.7	200.	11.10	34.73	26.57	152.4	0.617
194.	11.16	34.73	0.34	1.98	26.56	153.5	250.	10.59	34.72	26.65	145.4	0.692
228.	10.86	34.73	1.38	2.47	26.61	148.6	300.	10.11	34.71	26.73	139.0	0.764
253.	10.55	34.74	0.44	1.86	26.66	144.9	400.	9.38	34.68	26.83	131.3	0.900
281.	10.26	34.72	0.43	2.16	26.71	140.6	500.	8.57	34.63	26.91	124.3	1.029
306.	10.07	34.71	0.48	2.68	26.73	138.7	600.	7.60	34.57	27.02	115.0	1.150
406.	9.3	34.68	0.33	2.38	26.83	130.9	700.	6.72	34.55	27.12	105.7	1.261
509.	8.49	34.62	0.24	3.13	26.92	123.7	800.	5.98	34.54	27.21	97.3	1.364
610.	7.50	34.57	0.31	3.04	27.03	114.0	1000.	4.87	34.55	27.35	84.2	1.548
812.	5.90	34.54	0.26	2.67	27.22	96.4	1200.	4.01	34.57	27.46	73.8	1.708
1013.	4.81	34.55	1.05	2.3	27.36	83.5	1500.	3.17	34.60	27.57	63.5	1.917
1217.	3.95	34.57	1.37	2.58	27.47	73.0						
1518.	3.14	34.60	1.77	2.84	27.57	63.1						

CROMWELL 12- STATION 28, 17- ON LAT, 148- 1W LONG, JAN. 18, 1965, 1100 G.C.T.												
DRY BULB 23.8 WET BULB 21.7			WIND SPEED 17, DIR. 05			BAR. 15		WEATHER 01		VIS. 6		CLOUD TYPE 8, COVER 1
DEPTH	TEMP.	SAL.	DXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	24.39	34.03			22.81	505.2	0.	24.39	34.03	22.81	505.2	0.000
9.	24.37	34.03	5.02	0.56	22.82	505.0	10.	24.37	34.03	22.82	505.0	0.051
30. Δ	24.38	34.33			22.82	506.1	20.	24.37	34.03	22.82	505.4	0.102
48.	24.38	34.03	4.99	0.88	22.82	506.7	30.	24.38	34.03	22.82	506.1	0.153
72.	24.25	34.04	4.95	0.44	22.86	503.2	50.	24.54	34.02	22.76	511.9	0.255
96.	15.20	34.42	3.06	1.51	25.50	251.9	75.	23.16	34.10	23.22	468.8	0.379
100. Δ	14.40	34.41			25.67	236.2	100.	14.40	34.41	25.67	236.2	0.468
119.	12.67	34.38	1.85	2.00	26.00	204.9	150.	11.33	34.45	26.30	176.3	0.571
144.	11.35	34.39	1.72	2.42	26.26	180.6	200.	10.77	34.61	26.53	155.6	0.655
167.	11.40	34.60	0.63	2.69	26.41	166.6	250.	10.17	34.64	26.66	144.7	0.731
181.	11.14	34.61	0.45	2.56	26.47	161.6	300.	9.89	34.65	26.71	140.2	0.803
213.	10.54	34.61	0.41	2.76	26.57	151.9	400.	8.67	34.59	26.87	126.8	0.937
239.	10.24	34.63	0.30	2.80	26.64	146.0	500.	7.62	34.53	26.98	116.8	1.060
263.	10.17	34.64	0.28	2.78	26.67	143.7	600.	6.67	34.51	27.10	106.5	1.173
287.	10.02	34.65	0.19	2.44	26.69	141.8	700.	5.86	34.50	27.20	97.0	1.276
382.	8.87	34.60	0.34	2.92	26.85	128.7	800.	5.25	34.51	27.28	89.5	1.370
479.	7.83	34.54	0.64	3.55	26.96	118.9	1000.	4.50	34.54	27.39	79.7	1.541
574.	6.91	34.51	0.42	2.98	27.07	109.3	1200.	3.81	34.57	27.48	71.3	1.694
765.	5.42	34.51	0.58		27.26	91.6						
958.	4.66	34.54	0.99	2.96	27.37	81.7						
1150.	3.95	34.56	1.16	2.58	27.46	73.2						
1441.	3.13	34.59	1.65	2.60	27.57	63.1						

TEMPERATURE ERROR TERM AT 50. METERS IS 0.11

TEMPERATURE ERROR TERM AT 75. METERS IS 0.30

CROMWELL 12, STATION 29, 14-30N LAT, 148- 2W LONG, JAN. 18, 1965, 2000 G.C.T.													
DRY BULB 24.1		WET BULB 21.1		WIND SPEED 23, DIR. 05		BAR. 18		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	DXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	24.22	33.94	5.07		22.80	506.9	0.	24.22	33.94	22.80	506.9	0.000	
10.	24.25	33.95	5.12	0.28	22.80	507.4	10.	24.25	33.95	22.80	507.4	0.051	
30.Δ	24.14	34.05			22.90	497.8	20.	24.21	34.00	22.84	503.5	0.102	
50.Δ	23.35	34.12			23.01	488.2	30.	24.14	34.05	22.90	497.8	0.152	
54.	23.12	34.32	5.07	0.40	23.40	450.8	50.	23.95	34.12	23.01	488.2	0.252	
74.	21.37	34.76	5.06	0.36	24.24	371.4	75.	21.25	34.77	24.27	368.7	0.360	
98.	19.83	34.91	5.17	0.37	24.76	323.3	100.	19.77	34.92	24.78	321.0	0.447	
123.	18.54	34.87	4.64	0.48	25.07	294.0	150.	14.56	34.32	25.57	247.1	0.590	
148.	14.76	34.34	3.86	1.04	25.53	250.1	200.	11.03	34.24	26.20	187.0	0.699	
170.	12.88	34.26	3.05	1.33	25.86	219.0	250.	10.20	34.44	26.50	159.7	0.786	
185.	11.68	34.23	2.44	1.80	26.07	199.3	300.	9.73	34.53	26.65	145.7	0.863	
218.	10.64	34.30	2.42	2.19	26.31	176.6	400.	8.43	34.56	26.89	125.0	1.000	
243.	10.30	34.41	1.48	2.46	26.46	163.2	500.	7.38	34.51	27.00	115.0	1.121	
267.	9.97	34.49	1.00	1.96	26.58	152.3	600.	6.71	34.51	27.09	106.8	1.233	
296.	9.77	34.53	0.64	2.11	26.64	146.7	700.	5.97	34.52	27.19	97.7	1.336	
386.	8.61	34.57	0.48	2.87	26.86	126.9	800.	5.33	34.52	27.28	89.9	1.431	
481.	7.52	34.51	0.56	2.73	26.98	116.6	1000.	4.45	34.54	27.40	79.1	1.602	
576.	6.89	34.51	0.52	2.91	27.07	109.0	1200.	3.71	34.57	27.49	70.2	1.753	
765.	5.52	34.52	0.54	3.22	27.25	92.1							
956.	4.63	34.54	0.86	3.18	27.37	81.3							
1146.	3.89	34.56	1.18	2.33	27.47	72.4							
1432.	3.05	34.59	1.61	3.04	27.57	62.2							

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 12, STATION 30, 16-2N LAT, 148-5W LONG, JAN. 19, 1965, 0500 G.C.T.												
DRY BULB 23.9 WET BULB 21.3 WIND SPEED 12, DIR. 06 BAR. 17 WEATHER 01 VIS. 7 CLOUD TYPE 8, COVER 2												
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.17	34.11	4.98		22.96	491.2	0.	24.10	34.11	22.96	491.2	0.000
11.	24.14	34.10	5.18	0.32	22.94	493.5	10.	24.14	34.10	22.94	493.4	0.050
30.Δ	24.08	34.17			23.01	487.5	20.	24.13	34.12	22.96	491.8	0.099
50.	23.92	34.29	5.02	0.48	23.15	475.1	30.	24.08	34.17	23.01	487.5	0.149
73.	22.72	34.70	5.25	0.91	23.81	413.1	50.	23.92	34.29	23.15	475.1	0.245
97.	20.67	34.89	5.07	0.36	24.52	346.0	75.	22.54	34.72	23.88	406.6	0.357
123.	19.79	34.92	5.02	0.35	24.78	322.4	100.	20.54	34.90	24.56	342.0	0.451
146.	18.76	34.86	4.62	0.46	24.99	302.2	150.	18.48	34.82	25.03	298.5	0.612
171.	16.54	34.55	4.24	0.32	25.30	273.8	200.	13.32	34.28	25.79	227.1	0.745
185.	14.83	34.37	3.75	1.14	25.54	250.4	250.	10.33	34.22	26.31	177.6	0.847
217.	11.99	34.24	2.78	1.70	26.02	204.8	300.	10.59	34.61	26.56	135.2	0.931
242.	10.64	34.22	3.04	1.79	26.25	182.8	400.	8.94	34.53	26.77	111.1	1.077
268.	10.02	34.24	2.23	2.15	26.41	167.9	500.	7.70	34.47	26.93	100.7	1.207
291.	10.60	34.57	0.70	2.22	26.53	157.7	600.	6.75	34.46	27.05	92.1	1.325
388.	9.11	34.54	0.46	2.81	26.76	137.1	700.	5.96	34.47	27.16	80.8	1.432
484.	7.87	34.48	0.34	3.04	26.91	124.0	800.	5.34	34.50	27.26	72.1	1.529
580.	6.93	34.40	0.34	2.37	27.02	113.3	1000.	4.53	34.54	27.38	63.9	1.704
774.	5.48	34.49	0.54	3.36	27.24	93.9	1200.	3.86	34.57	27.48		1.859
968.	4.64	34.53	0.80	3.29	27.17	82.3						
1162.	4.01	34.56	1.04	3.36	27.46	74.0						
1456.	3.18	34.59	1.43	2.69	27.56	63.9						

CROMWELL 12, STATION 31, 17-29N LAT, 147-59W LONG, JAN. 19, 1965, 1500 G.C.T.																
DRY BULB 23.0					WET BULB 20.4		WIND SPEED 16, DIR. 04		BAR. 19		WEATHER 03		VIS. 5		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	24.10	34.28	5.06		23.09	478.9	0.	24.10	34.28	23.09	478.9	0.000				
11.	24.09	34.28	5.18	0.36	23.09	479.1	10.	24.09	34.28	23.09	479.1	0.048				
30.	24.07	34.28			23.09	479.8	20.	24.09	34.28	23.09	479.4	0.097				
49.	24.09	34.29	5.03	0.33	23.10	479.8	30.	24.09	34.28	23.09	479.8	0.145				
76.	24.40	34.79	5.00	0.34	23.38	453.7	50.	24.12	34.31	23.10	479.5	0.241				
99.	22.33	34.78	5.30	0.56	23.48	397.7	75.	24.41	34.77	23.37	455.3	0.359				
124.	20.83	34.86	4.99	0.44	24.45	353.2	100.	22.26	34.78	24.00	395.7	0.466				
149.	19.59	34.99	4.91	0.68	24.80	320.5	150.	19.56	34.89	24.81	319.7	0.647				
172.	18.45	34.81	4.60	0.52	25.03	299.2	200.	15.12	34.42	25.52	253.4	0.791				
187.	16.62	34.57	4.24	0.64	25.29	274.7	250.	11.13	34.16	26.12	196.3	0.904				
220.	13.12	34.26	4.27	0.69	25.62	224.9	300.	9.28	34.14	26.42	167.5	0.996				
247.	11.26	34.16	4.13	1.41	26.09	198.3	400.	7.40	34.21	26.76	135.7	1.149				
272.	10.33	34.15	3.58	2.09	26.25	183.5	500.	7.01	34.39	26.96	118.2	1.277				
296.	9.46	34.14	3.52	1.71	26.40	169.4	600.	6.15	34.42	27.10	105.5	1.390				
395.	7.43	34.20	3.31	2.60	26.75	136.8	700.	5.59	34.46	27.20	96.7	1.492				
495.	7.05	34.39	0.60		26.95	118.9	800.	5.18	34.49	27.27	90.2	1.587				
593.	6.19	34.42	0.68	3.00	27.09	106.2	1000.	4.35	34.51	27.38	80.3	1.759				
789.	5.23	34.49	0.79	3.00	27.27	90.9	1200.	3.70	34.54	27.48	71.6	1.913				
987.	4.40	34.51	0.98	3.07	27.38	80.9										
1185.	3.76	34.55	1.17	3.19	27.47	71.9										
1480.	2.99	34.58	1.53	3.11	27.57	62.4										

CROMWELL 12, STATION 32, 19-1N LAT, 147-57W LONG, JAN. 19, 1965, 2300 G.C.T.																
DRY BULB 24.1 WET BULB 20.9 WIND SPEED 16, DIR. 06 BAR. 20 WEATHER 02 VIS. 7 CLOUD TYPE 8, COVER 5																
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	24.15	34.27	5.02		23.07	481.1	0.	24.15	34.27	23.07	481.1	0.000				
10.	24.15	34.27	5.10	1.25	23.07	481.5	10.	24.15	34.27	23.07	481.5	0.048				
30.Δ	24.12	34.27			23.08	481.4	20.	24.14	34.27	23.07	481.6	0.097				
51.	24.01	34.26	5.04	1.02	23.10	479.8	30.	24.12	34.27	23.08	481.4	0.145				
77.	23.87	34.39	5.21	0.29	23.24	467.5	50.	24.02	34.26	23.10	480.0	0.242				
102.	23.03	34.60	5.17		23.64	429.9	75.	23.89	34.38	23.22	469.1	0.362				
127.	20.90	34.77	5.06	0.37	24.38	360.2	100.	23.13	34.58	23.60	434.0	0.476				
153.	19.08	34.73	4.50	0.59	24.85	316.0	150.	19.28	34.79	24.81	320.2	0.666				
178.	17.36	34.70	4.41	0.60	25.22	281.8	200.	14.89	34.40	25.55	250.0	0.809				
193.	15.76	34.48	3.75	0.92	25.42	262.4	250.	10.33	34.15	26.25	183.0	0.918				
227.	11.84	34.19	3.20	1.40	26.01	206.1	300.	9.38	34.24	26.48	162.0	1.005				
254.	10.15	34.15	3.28	1.67	26.28	180.1	400.	7.17	34.20	26.79	133.3	1.154				
280.	9.41	34.10	3.76	1.48	26.37	172.2	500.	6.91	34.41	26.99	115.8	1.280				
305.	9.40	34.28	2.16	2.40	26.51	159.3	600.	6.33	34.47	27.11	104.5	1.391				
406.	7.01	34.13	1.78	2.65	26.79	132.5	700.	5.69	34.48	27.20	96.6	1.493				
508.	6.94	34.43	0.56	3.04	27.00	114.6	800.	5.14	34.48	27.27	90.5	1.588				
609.	6.26	34.47	0.50	3.13	27.12	103.7	1000.	4.34	34.52	27.39	79.8	1.760				
811.	5.08	34.46	0.72	3.14	27.28	89.9	1200.	3.71	34.55	27.48	71.5	1.913				
1013.	4.30	34.52	0.92	3.24	27.39	79.2	1500.	3.05	34.59	27.57	62.6	2.117				
1214.	3.67	34.55	1.16	2.96	27.48	71.0										
1516.	3.02	34.59	1.42	3.08	27.58	62.3										

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA					
CROMWELL 12, STATION 33, 20-30N LAT, 148- 2W LONG, JAN. 20, 1965, 0900 G.C.T. DRY BULB 23.0 WET BULB 20.1 WIND SPEED 20, DIR. 05 BAR. 20 WEATHER 03 VIS. 6 CLOUD TYPE 8, COVER 5												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	23.71	34.38	5.25		23.28	460.8	0.	23.71	34.38	23.28	460.8	0.000
11.	23.72	34.38	4.89	0.38	23.28	461.5	10.	23.72	34.38	23.27	461.6	0.046
30.Δ	23.60	34.48			23.39	451.6	20.	23.68	34.42	23.32	457.9	0.093
53.Δ	23.34	34.62	5.04	0.35	23.57	435.2	30.	23.60	34.48	23.39	451.6	0.139
75.	23.18	34.61			23.61	432.3	50.	23.37	34.61	23.55	437.1	0.228
78.	23.15	34.61	5.00	0.30	23.62	431.6	75.	23.18	34.61	23.61	432.3	0.338
103.	23.18	35.06	5.02	0.24	23.95	400.9	100.	23.19	34.99	23.89	406.1	0.443
129.	21.97	35.22	5.09	0.27	24.41	357.4	150.	20.55	35.06	24.68	332.3	0.629
154.	20.30	35.03	4.84	0.33	24.72	328.4	200.	18.09	34.90	25.19	285.2	0.785
179.	19.54	35.08	4.88	0.30	24.96	306.6	250.	13.84	34.30	25.70	236.9	0.916
194.	18.49	34.96	4.90	0.40	25.14	290.1	300.	10.96	34.17	26.16	193.6	1.025
229.	15.91	34.56	4.52	0.60	25.45	260.9	400.	8.61	34.31	26.66	146.7	1.197
256.	13.26	34.24	3.98	1.21	25.77	230.0	500.	7.18	34.38	26.92	122.0	1.332
280.	11.51	34.13	4.20	1.24	26.03	205.8	600.	6.54	34.44	27.06	110.0	1.449
306.	10.87	34.19	3.20	1.81	26.19	190.6	700.	5.93	34.47	27.16	100.9	1.556
407.	8.46	34.31	1.46	2.66	26.68	144.2	800.	5.36	34.48	27.24	93.5	1.654
509.	7.10	34.38	0.68	3.13	26.94	120.6	1000.	4.56	34.51	27.36	83.2	1.833
609.	6.50	34.44	0.38	3.07	27.07	109.2	1200.	3.89	34.54	27.45	74.5	1.993
813.	5.29	34.48	0.56	3.07	27.25	92.6	1500.	3.14	34.56	27.54	66.0	2.206
1014.	4.51	34.51	1.12	3.06	27.36	82.6						
1216.	3.84	34.54	1.09	3.11	27.46	73.8						
1519.	3.11	34.56	1.39	3.11	27.55	65.6						

CROMWELL 12, STATION 34, 22- 0N LAT, 147-55W LONG, JAN. 20, 1965, 1800 G.C.T.													
DRY BULB 22.6		WET BULB 22.0		WIND SPEED 16, DIR. 08		BAR. 20		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	XY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.	
0.	23.51	34.57	5.06		23.48	441.5	0.	23.51	34.57	23.48	441.5	0.000	
9.	23.54	34.57	5.10	0.78	23.47	442.7	10.	23.54	34.57	23.47	442.7	0.045	
30.Δ	23.54	34.57			23.47	443.5	20.	23.55	34.57	23.47	443.4	0.089	
48.	23.57	34.60	5.02	0.31	23.49	442.3	30.	23.54	34.57	23.47	443.5	0.134	
71.	23.29	35.14	5.16	0.18	23.98	396.7	50.	23.53	34.65	23.53	438.5	0.223	
95.	23.15	35.00	5.13	0.21	24.06	389.7	75.	23.27	35.17	24.00	394.7	0.328	
119.	22.57	35.32	5.14	0.21	24.32	366.1	100.	23.07	35.23	24.11	385.6	0.426	
143.	21.42	35.27	5.10	0.20	24.60	339.7	150.	21.02	35.24	24.69	331.6	0.607	
166.	20.14	35.17	4.95	0.51	24.87	314.7	200.	18.53	34.97	25.14	290.3	0.763	
180.	19.57	35.13	4.90		24.99	303.7	250.	14.81	34.42	25.59	248.1	0.899	
212.	17.75	34.84	4.70		25.23	281.8	300.	11.77	34.16	26.00	208.4	1.014	
236.	15.77	34.53	4.41	0.52	25.46	260.3	400.	8.43	34.10	26.52	159.1	1.200	
262.	14.04	34.35	4.72	0.64	25.70	237.7	500.	6.48	34.09	26.79	133.2	1.347	
284.	12.57	34.21	4.59	0.82	25.89	219.6	600.	5.68	34.22	27.00	114.4	1.472	
378.	9.06	34.12	3.45	1.89	26.44	167.0	700.	5.17	34.34	27.15	100.3	1.581	
475.	6.80	34.07	2.29	2.44	26.74	138.8	800.	4.83	34.42	27.26	90.8	1.677	
570.	5.87	34.18	1.16	2.87	26.94	119.4	1000.	4.19	34.49	27.39	79.6	1.850	
759.	4.99	34.40	0.67	3.31	27.22	94.0	1200.	3.61	34.54	27.48	70.6	2.002	
952.	4.35	34.48	0.94		27.36	82.2							
1144.	3.74	34.53	1.16	3.17	27.46	72.7							
1435.	3.04	34.57	1.44	2.87	27.56	63.5							

CROMWELL 17, STATION 35, 23-28N LAT, 143- 1W LONG, JAN. 21, 1965, 0300 G.C.T.													
DRY BULB 22.6		WET BULB 19.9		WIND SPEED 16, DIR. 10		BAR. 17		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	XY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	22.84	35.19	5.07		24.15	378.0	0.	22.83	35.19	24.15	378.0	0.000	
10.	22.80	35.19	5.10	0.24	24.16	377.5	10.	22.80	35.19	24.16	377.5	0.038	
46.	22.32	35.29	5.09	0.22	24.37	358.7	20.	22.68	35.22	24.21	372.8	0.076	
69.	22.15	35.27	5.12	0.26	24.42	355.0	30.	22.55	35.24	24.27	367.7	0.113	
91.	21.86	35.36	5.11	0.19	24.55	343.0	50.	22.29	35.29	24.37	358.1	0.186	
114.	20.89	35.23	5.12	0.22	24.72	327.7	75.	22.11	35.32	24.45	352.2	0.276	
137.	19.91	35.13	4.90	0.27	24.93	308.2	100.	21.53	35.32	24.61	337.4	0.363	
158.	19.28	35.08	4.88	0.47	25.03	299.4	150.	19.48	35.10	24.99	302.5	0.524	
171.	18.79	35.02	4.88	0.31	25.11	292.2	200.	17.48	34.81	25.27	277.4	0.670	
202.	17.37	34.79	4.80	0.48	25.28	276.3	250.	14.67	34.44	25.63	243.8	0.801	
227.	15.63	34.54	4.73	0.57	25.50	256.2	300.	11.88	34.15	25.98	211.1	0.916	
250.	14.67	34.44	4.83	0.69	25.63	243.8	400.	8.76	34.04	26.43	168.6	1.108	
271.	13.25	34.27	4.65	0.83	25.80	228.0	500.	6.56	34.04	26.74	138.0	1.262	
362.	9.87	34.08	4.72	1.33	26.28	182.8	600.	5.36	34.15	26.98	115.3	1.390	
452.	7.49	34.07	3.34	2.16	26.60	151.9	700.	4.80	34.29	27.15	99.6	1.499	
543.	5.91	34.08	1.47	2.81	26.86	127.0	800.	4.54	34.39	27.26	89.8	1.595	
725.	4.74	34.32	1.20	3.28	27.19	96.6	1000.	4.10	34.50	27.40	78.4	1.765	
909.	4.35	34.46	0.87	3.64	27.34	83.3	1200.	3.60	34.55	27.49	69.7	1.915	
1093.	3.84	34.52	1.05	2.86	27.44	74.3							
1377.	3.14	34.56	1.50	3.09	27.54	65.0							

TEMPERATURE ERROR TERM AT 300. METERS IS 0.13

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 12, STATION 37, 25-44N LAT, 147-59W LONG, JAN. 21, 1965, 1300 G.C.T. DRY BULB 21.5 WET BULB 17.8 WIND SPEED 10, DIR. 14 BAR. 16 WEATHER 03 VIS. 6 CLOUD TYPE 8, COVER 6												
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.54	35.15	5.07		24.20	373.0	0.	22.54	35.15	24.20	373.0	0.000
10.	22.54	35.14	5.21	0.22	24.19	374.1	10.	22.54	35.14	24.19	374.1	0.038
48.	22.26	35.21	5.19		24.40	355.7	20.	22.49	35.18	24.23	370.5	0.075
72.	22.10	35.35	5.18	0.21	24.48	349.4	30.	22.42	35.22	24.28	366.0	0.112
95.	21.95	35.40	5.15		24.48	349.8	50.	22.25	35.32	24.41	354.9	0.185
118.	20.94	35.34	5.12		24.49	321.2	75.	22.10	35.34	24.47	350.1	0.274
141.	19.66	35.13	4.84	0.29	24.47	304.6	100.	21.78	35.32	24.54	344.3	0.361
165.	19.01	35.04	4.82	0.45	25.07	295.9	150.	19.35	35.08	25.01	300.9	0.524
179.	18.82	35.06	5.07		25.13	290.3	200.	18.12	34.94	25.22	282.9	0.671
211.	17.52	34.83	5.06		25.28	277.1	250.	14.30	34.37	25.65	241.5	0.803
236.	15.41	34.52	4.84	0.53	25.31	253.2	300.	12.04	34.17	25.95	213.3	0.918
260.	13.67	34.24	4.82	0.75	25.33	234.3	400.	9.07	34.07	26.40	171.5	1.112
283.	12.67	34.20	4.76	0.76	25.86	222.2	500.	6.97	34.02	26.67	145.1	1.272
377.	9.66	34.09	4.76	1.40	26.32	178.9	600.	5.56	34.08	26.90	123.2	1.407
472.	7.49	34.02	4.68		26.60	152.2	700.	4.75	34.19	27.08	106.1	1.523
567.	5.93	34.05	1.84		26.83	129.8	800.	4.36	34.31	27.22	93.7	1.624
755.	4.50	34.26	0.56		27.17	98.4	1000.	3.94	34.46	27.38	79.1	1.799
944.	4.08	34.43	0.86		27.35	82.5	1200.	3.48	34.54	27.50	69.2	1.949
1133.	3.62	34.51	1.20		27.46	72.7						
1420.	2.97	34.56	1.52		27.56	63.3						

CROMWELL 12, STATION 37, 26-27N LAT, 147-59W LONG, JAN. 21, 1965, 2000 G.C.T.												
DRY BULB 21.8		WET BULB 20.0		WIND SPEED 14, DIR. 17		BAR. 15		WEATHER 15		VIS. 7		CLOUD TYPE 8, COVER 7
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	22.34	35.24	5.14		24.32	361.1	0.	22.34	35.24	24.32	361.1	0.000
10.	22.35	35.24	5.30		24.32	361.7	10.	22.35	35.24	24.32	361.7	0.036
52.	22.16	35.34	5.08		24.45	351.0	20.	22.32	35.26	24.35	359.8	0.073
77.	22.05	35.35	5.09		24.49	348.2	30.	22.28	35.28	24.37	357.5	0.109
101.	21.93	35.36	5.06		24.53	345.2	50.	22.17	35.33	24.44	351.6	0.180
127.	20.44	35.23	4.91		24.84	316.6	75.	22.06	35.35	24.49	348.4	0.268
153.	19.58	35.14	4.84		25.00	302.3	100.	21.95	35.36	24.53	345.6	0.356
177.	18.66	34.99	4.87		25.12	291.4	150.	19.67	35.15	24.98	303.6	0.519
192.	17.90	34.87	4.89		25.22	282.5	200.	17.47	34.81	25.27	277.3	0.666
226.	15.97	34.61	4.91		25.47	258.5	250.	14.43	34.44	25.68	239.2	0.796
253.	14.21	34.41	4.83		25.71	236.6	300.	11.39	34.12	26.04	204.4	0.908
274.	12.30	34.17	4.65		25.91	217.2	400.	9.27	34.06	26.36	175.0	1.099
304.	11.32	34.13	4.73		26.06	202.9	500.	7.11	34.02	26.65	147.1	1.262
405.	9.14	34.06	4.50		26.37	173.9	600.	5.59	34.06	26.89	124.8	1.399
507.	6.97	34.02	3.69		26.67	145.3	700.	4.79	34.16	27.06	108.7	1.517
608.	5.90	34.07	1.55		26.90	123.3	800.	4.36	34.27	27.19	96.5	1.621
810.	4.34	34.28	0.48		27.20	95.5	1000.	3.80	34.42	27.37	80.2	1.800
1012.	3.78	34.43	0.79		27.38	79.5	1200.	3.36	34.52	27.49	69.7	1.952
1214.	3.33	34.52	1.18		27.49	69.1	1500.	2.77	34.57	27.59	60.6	2.150
1516.	2.74	34.57	1.60		27.59	60.4						

CROMWELL 12, STATION 33, 25- 44N LAT, 150-55W LONG, JAN. 22, 1965, 1500 G.C.T. DRY BULB 20.3 WET BULB 18.8 WIND SPEED 20, DIR. 30 BAR. 15 WEATHER 01 VIS. 6 CLOUD TYPE 8, COVER 4												
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.51	35.23			24.27	366.4	0.	22.51	35.23	24.27	366.4	0.000
9.	22.61	35.23			24.24	369.4	10.	22.61	35.23	24.24	369.6	0.037
20.Δ	22.60	35.23			24.24	369.6	20.	22.60	35.23	24.24	369.6	0.074
30.Δ	22.50	35.25			24.29	365.8	30.	22.50	35.25	24.29	365.8	0.111
50.	22.27	35.23			24.37	358.2	50.	22.27	35.28	24.37	358.2	0.184
74.	22.20	35.29			24.40	356.5	75.	22.18	35.29	24.41	355.8	0.274
99.	21.43	35.31			24.63	335.5	100.	21.39	35.31	24.64	334.5	0.361
124.	20.46	35.26			24.86	314.9	150.	20.06	35.24	24.95	306.8	0.523
151.	20.04	35.24			24.95	306.6	200.	17.35	34.79	25.29	276.0	0.670
174.	18.89	35.04			25.10	293.3	250.	14.87	34.47	25.61	245.5	0.801
188.	17.49	34.39			25.21	283.0	300.	12.26	34.22	25.95	213.4	0.917
223.	16.25	34.63			25.42	263.2	400.	9.09	34.07	26.40	171.6	1.111
249.	14.93	34.48			25.61	246.3	500.	6.88	34.02	26.69	143.9	1.270
275.	13.50	34.33			25.81	227.2	600.	5.50	34.11	26.93	120.4	1.404
300.	12.26	34.22			25.95	213.4	700.	4.76	34.22	27.11	104.0	1.517
401.	9.07	34.07			26.40	171.3	800.	4.39	34.33	27.23	92.4	1.617
501.	6.86	34.02			26.69	143.7	1000.	4.03	34.48	27.39	78.8	1.790
602.	5.48	34.11			26.94	120.0	1200.	3.48	34.51	27.47	71.5	1.942
801.	4.39	34.33			27.23	92.3	1500.	2.78	34.57	27.58	60.8	2.143
1001.	4.03	34.48			27.39	78.7	2000.	2.14	34.62	27.68	52.0	2.430
1200.	3.48	34.51			27.47	71.5	2500.	1.78	34.65	27.73	47.2	2.682
1500.	2.79	34.57			27.58	60.8	3000.	1.58	34.67	27.76	44.7	2.917
2020.	2.12	34.62			27.68	51.8	4000.	1.47	34.69	27.78	44.5	3.374
2504.	1.71	34.65			27.73	47.2						
3010.	1.54	34.67			27.76	44.7						
4041.	1.48	34.69			27.78	44.7						

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 12, STATION 39, 25- ON LAT, 154- OW LONG, JAN. 23, 1965, 0900 G.C.T.												
DRY BULB 21.0 WET BULB 16.2 WIND SPEED 18, DIR. 03				BAR. 23 WEATHER 02				VIS. CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.10	35.01	5.12		23.87	403.9	0.	23.30	35.01	23.87	403.9	0.000
10.	23.33	35.02	5.15		23.87	404.4	10.	23.33	35.02	23.87	404.4	0.041
30.Δ	23.42	35.02			23.88	404.9	20.	23.33	35.02	23.87	404.7	0.081
51.	23.30	35.02	5.11		23.38	405.1	30.	23.32	35.02	23.88	404.9	0.122
77.	23.35	35.04	5.02		23.88	406.1	50.	23.30	35.02	23.88	405.1	0.204
102.	22.62	35.23	5.06		24.24	373.3	75.	23.36	35.03	23.88	406.6	0.306
128.	21.61	35.22	5.03		24.51	348.3	100.	22.70	35.22	24.20	376.3	0.405
154.	20.37	35.15	5.06		24.80	321.6	150.	20.55	35.16	24.76	325.3	0.581
178.	19.73	35.14	4.92		24.96	306.9	200.	18.52	34.97	25.14	290.6	0.737
192.	18.94	35.03	4.70		25.08	295.8	250.	15.62	34.56	25.51	255.4	0.874
227.	17.07	34.73	4.75		25.32	273.1	300.	12.63	34.23	25.89	219.6	0.974
255.	15.30	34.52	4.73		25.55	251.4	400.	9.15	34.07	26.39	172.3	1.192
280.	13.76	34.36	4.74		25.76	231.8	500.	6.78	34.02	26.70	142.5	1.351
305.	12.36	34.20	4.77		25.92	216.9	600.	5.44	34.09	26.92	121.0	1.484
406.	9.02	34.09	4.11		26.42	169.9	700.	4.74	34.21	27.10	104.7	1.598
508.	6.03	34.02	3.06		26.72	140.6	800.	4.35	34.33	27.23	92.2	1.697
610.	5.35	34.10	1.33		26.94	119.2	1000.	3.90	34.48	27.41	77.0	1.869
812.	4.33	34.34	0.68		27.25	91.0	1200.	3.43	34.53	27.49	69.5	2.017
1014.	3.38	34.49	1.44		27.41	76.3	1500.	2.85	34.58	27.59	60.9	2.215
1215.	3.49	34.51	1.33		27.50	69.1						
1517.	2.82	34.53	1.64		27.59	60.6						

CROMWELL 12, STATION 40, 24-56N LAT, 156-58W LONG, JAN. 24, 1965, 0000 G.C.T.														
DRY BULB 22.9 WET BULB 17.2 WIND SPEED 25, DIR. 09					BAR. 22 WEATHER 02					VIS. 7 CLOUD TYPE 8, COVER 5				
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.16	35.15			24.02	389.9	0.	23.16	35.15	24.02	389.9	0.000		
10.	23.19	35.12			23.99	393.3	10.	23.19	35.12	23.99	393.3	0.039		
30.Δ	23.17	35.12			24.00	393.5	20.	23.19	35.11	23.99	394.0	0.079		
51.	23.16	35.13			24.01	393.3	30.	23.17	35.12	24.00	393.5	0.119		
76.	23.12	35.14			24.03	392.5	50.	23.16	35.13	24.01	393.4	0.198		
101.	22.71	35.24			24.22	375.0	75.	23.13	35.14	24.02	392.7	0.297		
125.	21.65	35.16			24.46	353.1	100.	22.74	35.24	24.21	375.9	0.394		
150.	20.76	35.10			24.65	335.0	150.	20.76	35.10	24.65	335.0	0.573		
175.	18.73	34.91			25.04	298.9	200.	17.17	34.76	25.31	273.4	0.726		
190.	17.94	34.85			25.19	284.8	250.	13.73	34.40	25.80	227.2	0.852		
223.	15.31	34.55			25.58	248.5	300.	12.33	34.28	25.99	210.1	0.963		
251.	13.68	34.40			25.81	226.5	400.	8.88	34.07	26.43	168.3	1.154		
276.	12.92	34.32			25.92	216.2	500.	6.64	34.02	26.72	140.6	1.310		
311.	12.12	34.27			26.02	207.4	600.	5.57	34.08	26.90	123.4	1.443		
400.	8.95	34.07			26.43	168.3	700.	4.89	34.19	27.07	107.4	1.559		
501.	6.62	34.02			26.72	140.4	800.	4.44	34.32	27.22	93.8	1.661		
601.	5.56	34.08			26.90	123.2	1000.	3.85	34.47	27.40	77.4	1.834		
801.	4.44	34.32			27.22	93.7	1200.	3.30	34.53	27.50	67.9	1.982		
1002.	3.85	34.47			27.40	77.3	1500.	2.73	34.57	27.59	60.2	2.176		
1202.	3.79	34.53			27.50	67.8								
1503.	2.73	34.57			27.59	60.2								

CROMWELL 12, STATION 41, 23-30N LAT, 146-59W LONG, JAN. 24, 1965, 1000 G.C.T.														
DRY BULB 23.0 WET BULB 19.9 WIND SPEED 25, DIR. 07					BAR. 21 WEATHER 02					VIS. CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.29	35.12			23.96	395.7	0.	23.29	35.12	23.96	395.7	0.000		
11.	23.31	35.12			23.96	396.7	10.	23.31	35.12	23.96	396.6	0.040		
30.Δ	23.30	35.12			23.96	397.1	20.	23.31	35.12	23.96	397.0	0.080		
52.	23.29	35.13			23.97	397.0	30.	23.30	35.12	23.96	397.1	0.120		
77.	23.34	35.13			23.95	399.3	50.	23.29	35.13	23.97	397.0	0.200		
102.	23.63	35.20			24.10	386.7	75.	23.34	35.13	23.95	399.4	0.300		
177.	21.93	35.19			24.40	358.5	100.	23.08	35.19	24.08	388.2	0.399		
153.	20.52	35.16			24.76	324.6	150.	20.68	35.17	24.73	328.2	0.580		
176.	19.64	35.07			24.93	309.9	200.	18.34	34.90	25.13	290.8	0.736		
191.	18.64	34.97			25.06	297.7	250.	15.23	34.53	25.58	249.0	0.872		
227.	16.75	34.70			25.36	269.4	300.	12.67	34.27	25.92	217.3	0.990		
254.	14.95	34.50			25.62	245.4	400.	9.38	34.13	26.39	172.1	1.186		
279.	13.22	34.32			25.84	224.0	500.	6.97	34.08	26.72	140.8	1.344		
306.	12.58	34.27			25.93	216.0	600.	5.49	34.14	26.96	117.7	1.474		
405.	9.20	34.12			26.42	169.8	700.	4.84	34.25	27.12	102.8	1.586		
507.	6.54	34.08			26.74	139.1	800.	4.59	34.36	27.24	92.5	1.685		
608.	5.40	34.15			26.98	116.1	1000.	4.06	34.49	27.40	78.0	1.857		
810.	4.58	34.37			27.25	91.8	1200.	3.53	34.54	27.49	70.0	2.007		
1013.	4.03	34.50			27.41	77.4	1500.	2.84	34.58	27.59	60.7	2.206		
1213.	3.50	34.54			27.49	69.7								
1516.	2.80	34.58			27.59	60.4								

TEMPERATURE ERROR TERM AT 700. METERS IS 0.10

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA						
CROMWELL 12, STATION 42, 2.- ON LAT, 157- 1W LONG, JAN. 24, 1965, 1900 G.C.T.														
DRY BULB 23.4			WET BULB 21.5			WIND SPEED 26, DIR. 07		BAR. 18		WEATHER 02		VIS. 7	CLOUD TYPE 6, COVER 5	
DEPTH	TEMP.	SAL.	PHY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.68	34.97			23.73	417.4	0.	23.68	34.97	23.73	417.4	0.000		
10.	23.74	34.96			23.71	420.1	10.	23.74	34.96	23.71	420.1	0.042		
52.	23.70	34.99			23.74	418.5	20.	23.75	34.96	23.71	420.8	0.085		
77.	23.69	35.02			23.77	417.0	30.	23.75	34.97	23.71	420.8	0.127		
102.	23.65	35.02			23.76	416.9	50.	23.71	34.99	23.74	418.8	0.212		
129.	22.75	35.24			24.21	377.1	75.	23.69	35.02	23.77	417.1	0.317		
154.	20.09	35.08			24.82	319.5	100.	23.67	35.02	23.77	417.5	0.422		
179.	19.45	35.04			24.95	307.2	150.	20.51	35.11	24.73	327.6	0.610		
194.	18.03	34.86			25.18	286.4	200.	17.65	34.81	25.23	281.2	0.763		
228.	16.23	34.63			25.43	262.9	250.	14.92	34.48	25.61	245.8	0.896		
255.	14.61	34.45			25.65	242.0	300.	12.17	34.21	25.96	212.6	1.012		
281.	13.05	34.29			25.85	222.9	400.	9.19	34.10	26.40	171.1	1.205		
305.	11.96	34.19			25.99	210.2	500.	6.94	34.09	26.73	139.7	1.362		
406.	9.06	34.10			26.42	169.0	600.	5.70	34.17	26.95	118.5	1.492		
508.	6.79	34.09			26.75	137.6	700.	5.11	34.30	27.13	102.2	1.604		
610.	5.62	34.13			26.97	116.7	800.	4.78	34.43	27.27	90.0	1.701		
812.	4.78	34.44			27.28	88.8	1000.	4.07	34.50	27.40	77.8	1.871		
1016.	4.02	34.50			27.41	77.3	1200.	3.49	34.53	27.48	70.4	2.021		
1217.	3.45	34.53			27.49	69.8	1500.	2.86	34.58	27.58	61.2	2.221		
1519.	2.83	34.54			27.59	60.8								

Table 3.--Original and derived oceanographic data for Townsend Cromwell cruise 13

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 13, STATION 1, 20-35N LAT, 157-16W LONG, FEB. 9, 1965, 0500 G.C.T.												
DRY BULB 23.8		WET BULB 19.7		WIND SPEED 08, DIR. 17		BAR. 15		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 4
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.82	34.87			23.62	428.5	0.	23.82	34.87	23.62	428.5	0.000
11.	23.84	34.87			23.61	429.5	10.	23.84	34.87	23.61	429.5	0.043
30.Δ	23.76	34.88			23.64	427.3	20.	23.82	34.87	23.62	429.3	0.086
50.	23.52	34.96			23.77	415.5	30.	23.76	34.88	23.64	427.3	0.130
74.	23.39	35.01			23.85	409.2	50.	23.52	34.96	23.77	415.5	0.215
98.	22.61	35.09			24.13	382.9	75.	23.36	35.01	23.86	408.3	0.318
123.	21.69	35.06			24.37	361.3	100.	22.54	35.09	24.15	381.0	0.418
147.	20.96	35.05			24.56	343.7	150.	20.95	35.06	24.57	343.1	0.600
169.	20.52	35.06			24.69	332.4	200.	16.88	34.72	25.34	270.2	0.755
194.	17.56	34.79			25.24	280.4	250.	13.27	34.34	25.85	222.8	0.879
217.	15.21	34.53			25.58	247.7	300.	10.91	34.18	26.17	191.9	0.984
241.	13.96	34.40			25.75	231.9	400.	8.24	34.18	26.61	150.4	1.156
265.	12.18	34.25			25.99	208.9	500.	6.64	34.21	26.86	126.9	1.296
289.	11.28	34.19			26.11	197.4	600.	5.73	34.31	27.06	108.7	1.415
384.	8.58	34.18			26.56	155.2	700.	5.13	34.39	27.20	95.8	1.519
480.	6.89	34.19			26.82	131.2	800.	4.72	34.46	27.30	86.9	1.611
574.	5.92	34.28			27.02	112.7	1000.	4.07	34.52	27.42	76.1	1.776
765.	4.86	34.44			27.27	89.6	1200.	3.52	34.56	27.50	68.5	1.922
956.	4.20	34.51			27.40	78.2						
1146.	3.67	34.55			27.48	70.4						
1431.	3.01	34.56			27.56	63.8						

CROMWELL 13, STATION 2, 18-59N LAT, 156-57W LONG, FEB. 9, 1965, 1500 G.C.T.												
DRY BULB 23.2		WET BULB 19.4		WIND SPEED 08, DIR. 18		BAR. 18		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 1
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.36	34.46			23.15	473.3	0.	24.36	34.46	23.15	473.3	0.000
10.	24.39	34.48			23.15	473.1	10.	24.39	34.48	23.15	473.1	0.048
49.	24.47	34.51			23.15	474.8	20.	24.41	34.49	23.16	473.3	0.095
74.	24.52	34.52			23.14	476.4	30.	24.43	34.50	23.16	473.7	0.143
98.	23.71	34.88			23.66	428.5	50.	24.48	34.51	23.15	475.3	0.239
124.	22.22	35.00			24.18	379.8	75.	24.50	34.53	23.16	474.9	0.358
149.	21.37	35.10			24.49	350.9	100.	23.60	34.89	23.70	424.3	0.472
173.	19.53	34.99			24.90	312.6	150.	21.30	35.10	24.51	349.3	0.666
198.	17.92	34.84			25.19	285.3	200.	17.77	34.83	25.21	283.0	0.826
222.	16.08	34.65			25.48	257.9	250.	13.89	34.39	25.75	231.8	0.956
247.	14.15	34.41			25.72	235.2	300.	11.42	34.23	26.12	197.5	1.064
271.	12.34	34.26			25.97	211.3	400.	7.97	34.16	26.64	147.7	1.238
297.	11.53	34.23			26.10	199.2	500.	6.13	34.23	26.95	118.6	1.372
394.	8.13	34.16			26.62	150.0	600.	5.50	34.35	27.12	102.7	1.484
495.	6.18	34.22			26.94	119.6	700.	5.07	34.44	27.24	91.8	1.582
594.	5.53	34.34			27.11	103.5	800.	4.75	34.49	27.32	84.6	1.672
790.	4.78	34.49			27.32	85.2	1000.	4.11	34.51	27.41	77.3	1.836
989.	4.14	34.51			27.40	77.7	1200.	3.55	34.54	27.49	70.2	1.985
1185.	3.58	34.54			27.48	70.4						
1481.	2.93	34.58			27.58	61.7						

CROMWELL 13, STATION 3, 17-27N LAT, 157- 0W LONG, FEB. 9, 1965, 2300 G.C.T.												
DRY BULB 24.5		WET BULB 20.2		WIND SPEED 10, DIR. 03		BAR. 18		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 1
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.19	34.22			22.72	514.5	0.	25.19	34.22	22.72	514.5	0.000
10.	24.86	34.21			22.81	506.1	10.	24.86	34.21	22.81	506.1	0.051
20. Δ	24.80	34.21			22.83	504.7	20.	24.80	34.21	22.83	504.7	0.102
30. Δ	24.80	34.21			22.83	505.1	30.	24.80	34.21	22.83	505.1	0.153
51.	24.80	34.21			22.83	505.9	50.	24.80	34.21	22.83	505.9	0.255
76.	24.79	34.21			22.83	506.6	75.	24.81	34.20	22.82	507.4	0.383
100.	23.28	34.78			23.71	423.8	100.	23.28	34.78	23.71	423.8	0.500
125.	21.85	35.04			24.31	367.1	150.	18.92	34.76	24.87	313.8	0.686
151.	18.79	34.74			24.89	311.8	200.	13.54	34.32	25.78	227.9	0.822
175.	15.73	34.49			25.44	260.5	250.	10.98	34.29	26.25	183.9	0.926
201.	13.47	34.32			25.79	226.9	300.	9.57	34.29	26.49	161.2	1.013
225.	12.10	34.28			26.03	204.2	400.	7.96	34.39	26.82	130.6	1.160
251.	10.94	34.29			26.25	183.2	500.	7.36	34.46	26.96	118.4	1.286
276.	10.22	34.26			26.36	173.6	600.	6.26	34.46	27.11	104.3	1.399
301.	9.54	34.29			26.49	160.7	700.	5.59	34.48	27.21	95.4	1.499
400.	7.96	34.39			26.82	130.6	800.	5.14	34.50	27.28	89.1	1.593
501.	7.36	34.46			26.96	118.3	1000.	4.38	34.53	27.39	79.4	1.763
602.	6.24	34.46			27.12	104.1	1200.	3.68	34.56	27.49	70.3	1.915
801.	5.14	34.50			27.28	89.1	1500.	2.91	34.59	27.59	60.9	2.115
1001.	4.38	34.53			27.39	79.4						
1201.	3.68	34.56			27.49	70.3						
1502.	2.91	34.59			27.59	60.9						

ΔFROM 8T DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 13, STATION 4, 16- IN LAT, 156-59W LONG, FEB. 10, 1965, 1200 G.C.T.													
DRY BULB 24.2		WET BULB 20.9		WIND SPEED 12, DIR. 03		BAR. 17		WEATHER 03		VIS. 7		CLOUD TYPE 4, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.74	34.23			22.86	500.8	0.	24.74	34.23	22.86	500.8	0.000	
10.	24.76	34.23			22.85	501.8	10.	24.76	34.23	22.85	501.8	0.050	
30.	24.76	34.24			22.86	501.8	20.	24.76	34.23	22.86	501.9	0.101	
51.	24.77	34.25			22.87	502.2	30.	24.76	34.24	22.86	501.8	0.152	
76.	24.86	34.29			22.87	502.9	50.	24.77	34.25	22.87	502.2	0.253	
100.	19.12	34.72			24.80	319.5	75.	24.92	34.28	22.85	504.8	0.380	
125.	17.66	34.75			25.18	283.4	100.	19.12	34.72	24.80	319.5	0.483	
151.	14.40	34.30			25.58	245.6	150.	14.53	34.32	25.57	246.9	0.626	
177.	12.51	34.23			25.91	214.3	200.	11.41	34.23	26.12	194.9	0.737	
202.	11.33	34.23			26.14	193.4	250.	10.12	34.35	26.44	165.0	0.828	
226.	10.52	34.27			26.31	176.9	300.	9.72	34.49	26.62	149.0	0.907	
251.	10.11	34.35			26.45	164.6	400.	8.28	34.48	26.84	128.7	1.048	
277.	10.10	34.45			26.53	157.7	500.	7.14	34.47	27.00	114.4	1.170	
302.	9.68	34.49			26.63	148.3	600.	6.17	34.46	27.13	103.0	1.280	
402.	8.26	34.48			26.85	128.5	700.	5.40	34.46	27.22	94.0	1.380	
502.	7.12	34.47			27.01	114.1	800.	4.82	34.48	27.30	86.6	1.471	
603.	6.14	34.46			27.13	102.7	1000.	4.16	34.55	27.43	75.2	1.635	
803.	4.81	34.48			27.31	86.4	1200.	3.54	34.56	27.51	68.5	1.780	
1003.	4.15	34.55			27.43	75.0	1500.	2.78	34.61	27.62	57.8	1.972	
1202.	3.53	34.56			27.51	68.5							
1503.	2.77	34.61			27.62	57.7							

CROMWELL 13, STATION 5, 14-27N LAT, 156-56W LONG, FEB. 10, 1965, 2100 G.C.T.															
DRY BULB 25.3		WET BULB 22.0		WIND SPEED 20, DIR. 05		BAR. 15		WEATHER C3		VIS. 7		CLOUD TYPE 8, COVER 4			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.72	34.26			22.89	498.1	0.	24.72	34.26	22.89	498.1	0.000			
11.	24.72	34.24			22.87	499.9	10.	24.72	34.24	22.87	499.8	0.050			
30.	24.72	34.25			22.88	499.9	20.	24.72	34.24	22.87	500.2	0.101			
51.	24.69	34.26			22.90	499.2	30.	24.72	34.25	22.88	499.9	0.151			
76.	22.81	34.91			23.94	400.5	50.	24.71	34.25	22.89	500.1	0.252			
101.	20.48	35.01			24.66	332.6	75.	22.91	34.88	23.89	405.2	0.366			
125.	18.86	34.96			25.05	296.7	100.	20.57	35.01	24.64	334.7	0.459			
151.	16.31	34.62			25.40	263.0	150.	16.41	34.64	25.39	264.2	0.610			
174.	14.22	34.37			25.67	237.5	200.	12.16	34.29	26.03	204.0	0.728			
201.	12.09	34.29			26.04	202.7	250.	9.64	34.32	26.50	159.1	0.819			
225.	10.88	34.35			26.31	177.2	300.	9.45	34.52	26.69	142.0	0.895			
250.	9.64	34.32			26.50	159.1	400.	8.08	34.54	26.92	121.3	1.028			
275.	9.18	34.39			26.63	147.0	500.	7.12	34.52	27.04	110.4	1.145			
299.	9.45	34.52			26.69	142.3	600.	6.41	34.53	27.15	101.1	1.252			
399.	8.09	34.54			26.92	121.4	700.	5.74	34.53	27.24	93.4	1.350			
498.	7.14	34.52			27.04	110.6	800.	5.17	34.53	27.30	87.3	1.442			
598.	6.42	34.53			27.15	101.3	1000.	4.49	34.55	27.40	79.2	1.610			
796.	5.19	34.53			27.30	87.5	1200.	3.85	34.57	27.48	71.5	1.763			
996.	4.50	34.55			27.40	79.3									
1195.	3.86	34.57			27.48	71.7									
1493.	3.02	34.61			27.59	60.7									

CROMWELL 13, STATION 6, 13- IN LAT, 157- 0W LONG, FEB. 11, 1965, 0600 G.C.T.															
DRY BULB 25.2		WET BULB 22.3		WIND SPEED 22, DIR. 05		BAR. 13		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.93	34.29			22.85	501.9	0.	24.93	34.29	22.85	501.9	0.000			
10.	24.93	34.29			22.85	502.3	10.	24.93	34.29	22.85	502.3	0.051			
30.	24.93	34.29			22.85	503.1	20.	24.94	34.29	22.85	502.9	0.101			
51.	24.83	34.29			22.88	501.0	30.	24.93	34.29	22.85	503.1	0.152			
76.	24.16	34.99			23.61	432.4	50.	24.84	34.28	22.87	501.7	0.253			
101.	21.44	35.14			24.50	348.1	75.	24.21	34.96	23.57	436.0	0.371			
126.	18.61	34.89			25.05	295.7	100.	21.57	35.14	24.47	351.2	0.470			
152.	15.16	34.48			25.55	248.3	150.	15.43	34.51	25.52	251.7	0.622			
176.	12.35	34.29			25.99	206.9	200.	11.32	34.47	26.32	175.5	0.730			
201.	11.30	34.48			26.34	174.5	250.	10.88	34.65	26.54	155.9	0.814			
227.	11.08	34.60			26.47	162.4	300.	9.99	34.68	26.72	139.4	0.888			
252.	10.86	34.65			26.55	155.4	400.	8.71	34.59	26.87	127.1	1.022			
278.	10.47	34.67			26.63	147.8	500.	7.75	34.57	26.99	115.8	1.145			
302.	9.94	34.68			26.73	138.6	600.	6.86	34.54	27.10	106.6	1.257			
403.	8.69	34.59			26.87	127.0	700.	6.12	34.53	27.19	98.3	1.361			
504.	7.71	34.57			27.00	115.4	800.	5.51	34.54	27.27	90.9	1.456			
603.	6.83	34.54			27.10	106.4	1000.	4.61	34.56	27.39	80.1	1.630			
803.	5.49	34.54			27.27	90.7	1200.	3.93	34.58	27.48	71.9	1.784			
1004.	4.60	34.56			27.39	79.9	1500.	3.14	34.61	27.58	62.2	1.988			
1204.	3.92	34.58			27.48	71.8									
1504.	3.13	34.61			27.58	62.1									

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL DRY BULB 24.4		13, STATION WET BULB 22.1		7, 11-30M LAT, 157- WIND SPEED 26, DIR. 04		OW LONG, FEB. 11, 1965, 1500 G.C.T. BAR. 11		WEATHER 01		VIS. 7		CLOUD TYPE , COVER 0	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	24.92	34.20			22.78	508.1	0.	24.92	34.20	22.78	508.1	0.000	
10.	24.96	34.20			22.77	509.7	10.	24.96	34.20	22.77	509.7	0.051	
30.Δ	24.96	34.20			22.77	510.5	20.	24.97	34.20	22.77	510.3	0.103	
50.	24.96	34.20			22.77	511.2	30.	24.96	34.20	22.77	510.5	0.154	
75.	22.33	34.71			23.93	401.9	50.	24.96	34.20	22.77	511.2	0.257	
100.	20.06	34.89			24.68	330.6	75.	22.33	34.71	23.93	401.9	0.372	
125.	16.26	34.58			25.38	264.0	100.	20.06	34.89	24.68	330.6	0.464	
151.	11.91	34.26			26.05	200.4	150.	12.05	34.27	26.03	202.3	0.598	
174.	10.83	34.34			26.31	175.9	200.	10.93	34.56	26.47	162.0	0.690	
201.	10.95	34.57			26.47	161.7	250.	10.65	34.70	26.62	148.0	0.768	
226.	10.9R	34.70			26.56	153.2	300.	9.95	34.68	26.73	138.7	0.841	
250.	10.65	34.70			26.62	148.0	400.	8.98	34.63	26.85	128.6	0.976	
275.	10.29	34.70			26.69	142.4	500.	8.06	34.58	26.96	119.8	1.101	
300.	9.95	34.68			26.73	138.7	600.	7.17	34.56	27.07	109.7	1.217	
400.	8.98	34.63			26.85	128.6	700.	6.39	34.55	27.17	101.1	1.323	
501.	8.05	34.58			26.96	119.7	800.	5.70	34.54	27.25	93.5	1.422	
601.	7.16	34.56			27.07	109.6	1000.	4.56	34.55	27.39	80.0	1.597	
800.	5.70	34.54			27.25	93.5	1200.	3.78	34.57	27.49	70.8	1.750	
992.	4.59	34.55			27.39	80.4							
1187.	3.89	34.57			27.48	72.0							
1483.	3.07	34.60			27.58	62.0							

CROMWELL DRY BULB 24.9		13, STATION WET BULB 22.7		7A, 10- 7M LAT, 154- WIND SPEED 19, DIR. 04		4W LONG, FEB. 12, 1965, 1200 G.C.T. BAR. 12		WEATHER 03		VIS. 7		CLOUD TYPE 4, COVER 6	
DEPTH	TEMP.	SAL.	PXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	25.08	34.24	5.13		22.76	509.9	0.	25.08	34.24	22.76	509.9	0.000	
10.	25.08	34.23	5.14		22.76	511.0	10.	25.08	34.23	22.76	511.0	0.051	
20.Δ	25.08	34.23			22.76	511.4	20.	25.08	34.23	22.76	511.4	0.103	
30.Δ	25.02	34.24			22.78	509.3	30.	25.02	34.24	22.78	509.3	0.154	
51.	21.57	34.80	5.51		24.21	374.2	50.	21.78	34.77	24.13	381.8	0.244	
77.	18.31	34.80	4.56		25.06	293.4	75.	18.56	34.82	25.01	297.9	0.330	
101.	14.12	34.41	3.47		25.73	230.5	100.	14.28	34.43	25.70	232.7	0.397	
126.	12.00	34.50	1.42		26.22	183.8	150.	11.45	34.70	26.48	159.4	0.495	
152.	11.44	34.72	0.23		26.50	158.2	200.	10.73	34.72	26.63	146.8	0.572	
177.	11.03	34.72	0.56		26.57	151.5	250.	10.07	34.71	26.73	137.3	0.644	
202.	10.70	34.72	0.47		26.63	146.3	300.	9.69	34.69	26.78	133.7	0.712	
227.	10.31	34.72	0.70		26.70	140.2	400.	8.88	34.65	26.88	125.5	0.843	
252.	10.05	34.71	0.56		26.74	137.2	500.	7.84	34.60	27.01	114.9	0.965	
278.	9.81	34.70	0.35		26.77	134.5	600.	7.03	34.57	27.10	106.8	1.077	
303.	9.68	34.69	0.35		26.78	133.6	700.	6.27	34.56	27.19	98.9	1.160	
402.	8.86	34.65	0.47		26.89	125.3	800.	5.60	34.55	27.27	91.4	1.277	
504.	7.80	34.60	0.55		27.01	114.5	1000.	4.56	34.56	27.40	79.4	1.449	
605.	6.99	34.57	0.61		27.10	106.5	1200.	3.77	34.59	27.51	69.2	1.600	
806.	5.56	34.55	0.70		27.27	91.0	1500.	2.99	34.62	27.60	59.7	1.796	
1006.	4.53	34.56	1.21		27.40	79.1							
1205.	3.75	34.59			27.51	69.0							
1507.	2.98	34.62	1.89		27.61	59.6							

CROMWELL		13, STATION		8, 11-34N LAT, 154- 2W LONG, FEB. 12, 1965, 2200 G.C.T.													
DRY BULB 25.2		WET BULB 22.5		WIND SPEED 12, DIR. 03		BAR. 11		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 8					
DEPTH	TEMP.	SAL.	PXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.					
0.	25.28	34.36	5.25		22.79	507.1	0.	25.28	34.36	22.79	507.1	0.000					
9.	25.28	34.36	5.06		22.79	507.4	10.	25.28	34.36	22.79	507.5	0.051					
30.Δ	25.28	34.36			22.79	508.2	20.	25.28	34.36	22.79	507.9	0.102					
49.	25.27	34.36	4.91		22.80	508.7	30.	25.28	34.36	22.79	508.2	0.153					
74.	21.60	34.84	5.26		24.23	373.0	50.	25.19	34.38	22.84	504.8	0.255					
97.	15.81	34.53	5.31		25.45	257.0	75.	21.34	34.83	24.29	366.7	0.365					
121.	12.98	34.30	4.00		25.87	216.7	100.	15.32	34.49	25.53	249.5	0.443					
146.	11.76	34.39	1.93		26.18	188.0	150.	11.70	34.38	26.19	187.4	0.553					
169.	11.12	34.50	1.08		26.38	169.1	200.	10.23	34.73	26.72	137.7	0.635					
174.	10.74	34.61	0.53		26.54	154.5	250.	10.02	34.64	26.69	141.4	0.705					
217.	10.39	34.64	0.34		26.62	147.3	300.	9.44	34.63	26.77	134.3	0.775					
242.	10.07	34.64	0.26		26.68	142.4	400.	8.46	34.61	26.91	122.3	0.904					
267.	9.90	34.65	0.23		26.72	139.4	500.	7.56	34.57	27.02	113.4	1.023					
291.	9.55	34.63	0.27		26.76	135.6	600.	6.75	34.55	27.12	104.5	1.133					
389.	8.57	34.61	0.54		26.90	123.4	700.	5.97	34.54	27.21	95.8	1.234					
486.	7.68	34.57	0.73		27.00	114.6	800.	5.33	34.54	27.29	88.6	1.328					
584.	6.88	34.55	0.56		27.10	106.1	1000.	4.52	34.55	27.40	79.5	1.498					
778.	5.44	34.54	1.00		27.28	89.8	1200.	3.82	34.57	27.48	71.3	1.650					
975.	4.62	34.55	1.17		27.38	80.6											
1170.	3.91	34.57	1.34		27.48	72.1											
1466.	3.10	34.59	1.82		27.57	63.0											

TEMPERATURE ERROR TERM AT 200. METERS IS 0.22
SALINITY ERROR TERM AT 200. METERS IS 0.06

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 13, STATION 9, 12-59N LAT, 154- 0W LONG, FEB. 13, 1965, 0600 G.C.T. DRY BULB 25.1 WET BULB 22.6 WIND SPEED 19, DIR. 05 BAR. 14 WEATHER 03 VIS. 7 CLOUD TYPE 9, COVER 7												
DEPTH	TEMP.	SAL.	XY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.72	34.09	5.25		22.76	510.3	0.	24.72	34.09	22.76	510.3	0.000
10.	24.74	34.20	5.31		22.84	503.3	10.	24.74	34.20	22.84	503.3	0.051
49.	24.63	34.20	5.19		22.87	501.7	20.	24.72	34.23	22.86	501.3	0.102
76.	24.64	34.29	5.14		22.94	496.5	30.	24.69	34.23	22.88	500.4	0.152
100.	18.41	34.58	4.56		24.87	312.6	50.	24.70	34.20	22.85	503.6	0.253
124.	14.92	34.43	4.21		25.57	246.1	75.	24.71	34.28	22.91	498.8	0.379
150.	12.35	34.26	3.28		25.97	208.5	100.	18.41	34.58	24.87	312.6	0.482
173.	10.88	34.26	2.75		26.24	182.6	150.	12.35	34.26	25.97	208.5	0.613
198.	10.51	34.38	1.75		26.46	168.0	200.	10.48	34.39	26.41	166.9	0.708
222.	10.16	34.46	1.09		26.52	156.8	250.	9.80	34.49	26.61	148.9	0.787
248.	9.82	34.49	0.78		26.60	149.5	300.	9.06	34.48	26.72	139.1	0.860
273.	9.49	34.51	0.84		26.61	143.1	400.	8.10	34.52	26.90	123.1	0.992
297.	9.10	34.48	0.70		26.72	139.6	500.	7.28	34.51	27.01	113.5	1.112
396.	8.14	34.52	0.45		26.90	123.6	600.	6.53	34.49	27.10	105.7	1.222
496.	7.31	34.51	0.44		27.01	113.8	700.	5.84	34.51	27.20	96.7	1.324
594.	6.57	34.49	0.55		27.10	106.3	800.	5.28	34.53	27.29	88.5	1.418
792.	5.31	34.53	1.23		27.29	89.0	1000.	4.55	34.56	27.40	79.2	1.588
990.	4.59	34.56	1.15		27.39	79.7	1200.	3.85	34.58	27.49	71.2	1.740
1190.	3.84	34.57	1.31		27.48	71.4						
1491.	3.02	34.59	1.85		27.58	62.1						

CROMWELL 13, STATION 10, 14-31N LAT, 154-0W LONG, FEB. 13, 1965, 1600 G.C.T.												
DRY BULB 24.2		WET BULB 22.0		WIND SPEED 24, DIR. 08		BAR. 12		WEATHER 02		VIS. 5		CLOUD TYPE , COVER 8
DEPTH	TEMP.	SAL.	XY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	24.68	34.20	5.70		22.86	501.2	0.	24.68	34.20	22.86	501.2	0.000
10.	24.70	34.19	5.55		22.84	502.9	10.	24.70	34.19	22.84	502.9	0.051
50.	24.70	34.20	5.25		22.85	503.7	20.	24.71	34.19	22.84	503.5	0.101
74.	24.71	34.20	5.15		22.85	504.9	30.	24.71	34.19	22.84	503.8	0.152
100.	23.84	34.48	5.18		23.32	461.0	50.	24.70	34.20	22.85	503.7	0.253
124.	21.21	34.90	5.29		24.38	360.2	75.	24.70	34.21	22.85	504.4	0.380
149.	17.56	34.74	4.59		25.20	282.6	100.	23.84	34.48	23.32	461.0	0.502
173.	13.11	34.31	3.23		25.86	219.8	150.	17.35	34.72	25.23	279.2	0.689
199.	11.94	34.34	2.41		26.11	196.2	200.	11.91	34.34	26.12	195.5	0.808
224.	11.15	34.39	1.76		26.29	179.0	250.	10.34	34.42	26.46	163.7	0.899
248.	10.38	34.41	1.52		26.45	164.7	300.	9.12	34.41	26.66	145.2	0.977
274.	9.91	34.46	1.21		26.57	153.7	400.	8.04	34.48	26.88	125.2	1.113
298.	9.16	34.41	1.22		26.65	145.7	500.	6.98	34.49	27.04	110.5	1.232
397.	8.08	34.48	0.57		26.87	125.7	600.	6.26	34.51	27.15	100.6	1.339
497.	7.00	34.49	0.51		27.04	110.9	700.	5.54	34.51	27.25	92.3	1.436
595.	6.30	34.51	0.54		27.15	101.1	800.	4.94	34.51	27.32	85.7	1.526
794.	4.96	34.51	0.90		27.31	86.0	1000.	4.34	34.55	27.42	77.2	1.691
990.	4.38	34.55	1.01		27.41	77.8	1200.	3.70	34.59	27.51	68.6	1.839
1188.	3.67	34.59	1.33		27.52	67.8						
1486.	2.98	34.61	1.77		27.60	60.2						

CROMWELL 13, STATION 11, 16- ON LAT, 153-59W LONG, FEB. 14, 1965, 0100 G.C.T.												
DRY BULB 24.4		WET BULB 21.8		WIND SPEED 13, DIR. 00		BAR. 15		WEATHER 02		VIS. 6		CLOUD TYPE , COVER 9
DEPTH	TEMP.	SAL.	XY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.15	33.85	5.32		22.75	511.4	0.	24.15	33.85	22.75	511.4	0.000
11.	24.16	33.84	5.37		22.74	512.8	10.	24.16	33.84	22.74	512.9	0.052
30.Δ	24.08	33.96			22.85	502.6	20.	24.13	33.89	22.78	508.9	0.103
51.	23.98	34.08	5.21		22.97	491.9	30.	24.08	33.96	22.85	502.6	0.154
76.	23.92	34.17	5.42		23.06	484.7	50.	23.98	34.07	22.97	492.4	0.254
99.	22.39	34.74	5.66		23.93	402.2	75.	23.94	34.16	23.05	485.8	0.377
124.	20.34	34.98	5.29		24.68	332.0	100.	22.32	34.76	23.97	399.0	0.489
149.	17.59	34.68	4.88		25.15	287.6	150.	17.45	34.66	25.17	285.7	0.661
174.	14.28	34.31	3.84		25.61	243.1	200.	11.92	34.23	26.03	203.8	0.785
199.	11.97	34.23	2.99		26.02	204.9	250.	10.49	34.42	26.43	166.1	0.878
223.	11.09	34.30	2.03		26.23	184.5	300.	9.79	34.50	26.62	149.1	0.957
247.	10.55	34.41	1.37		26.42	167.6	400.	8.35	34.48	26.83	130.0	1.098
272.	10.12	34.46	1.15		26.53	157.2	500.	7.07	34.46	27.00	114.1	1.221
296.	9.84	34.50	0.90		26.61	150.1	600.	6.24	34.47	27.13	103.1	1.331
394.	8.44	34.48	0.48		26.82	131.1	700.	5.61	34.49	27.22	94.5	1.431
493.	7.14	34.46	0.48		27.00	115.0	800.	5.11	34.51	27.30	87.8	1.523
591.	6.30	34.47	0.50		27.12	104.0	1000.	4.33	34.53	27.40	78.5	1.692
787.	5.17	34.51	0.75		27.29	88.6	1200.	3.74	34.56	27.48	71.0	1.843
983.	4.38	34.53	1.28		27.39	79.2						
1179.	3.83	34.56	1.09		27.48	71.9						
1474.	3.12	34.59	1.60		27.57	63.3						

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL DRY BULB 24.2		13, STATION WET BULB 21.8		12, 17-29N LAT, 153-58W LONG, FEB. 14, 1965, 1000 G.C.T. WIND SPEED 20, DIR. 11				BAR. 16		WEATHER 02		VIS. 5		CLOUD TYPE , COVER 8	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.			
0.	24.31	34.17	5.25		22.94	492.8	0.	24.31	34.17	22.94	492.8	0.000			
11.	24.34	34.18	5.20		22.94	493.4	10.	24.34	34.18	22.94	493.6	0.050			
48.	24.14	34.65	5.18		23.36	455.2	20.	24.32	34.27	23.02	486.7	0.099			
72.	23.95	34.89	5.17		23.59	433.5	30.	24.27	34.39	23.12	477.3	0.148			
97.	23.29	34.95	5.16		23.83	411.7	50.	24.13	34.67	23.38	453.4	0.241			
121.	22.58	35.11	5.11		24.16	381.5	75.	23.89	34.90	23.62	431.1	0.353			
145.	20.60	34.96	4.98		24.59	340.8	100.	23.24	34.98	23.87	408.5	0.459			
169.	18.98	34.82	4.49		24.91	311.2	150.	20.26	34.93	24.66	334.5	0.646			
195.	16.95	34.69	4.42		25.31	273.7	200.	16.50	34.64	25.37	267.5	0.797			
218.	14.83	34.44	4.17		25.60	246.2	250.	12.20	34.28	26.01	206.7	0.917			
242.	12.73	34.30	2.95		25.92	215.0	300.	10.41	34.37	26.41	168.9	1.012			
267.	11.34	34.28	2.70		26.17	191.4	400.	8.44	34.40	26.76	137.0	1.166			
291.	10.64	34.36			26.36	173.8	500.	7.24	34.40	26.93	121.3	1.296			
380.	8.75	34.40			26.71	141.5	600.	6.38	34.40	27.05	110.1	1.413			
475.	7.51	34.40			26.90	124.5	700.	5.74	34.45	27.18	99.1	1.519			
571.	6.59	34.39			27.02	113.6	800.	5.22	34.50	27.27	90.4	1.615			
762.	5.42	34.49			27.24	93.0	1000.	4.36	34.52	27.39	79.9	1.787			
953.	4.53	34.51	0.99		27.36	82.2	1200.	3.70	34.55	27.48	71.2	1.940			
1147.	3.90	34.55	1.13		27.46	73.3									
1443.	3.10	34.58	1.68		27.56	63.5									

CROMWELL		13, STATION		13, 18-59N LAT, 153-58W LONG, FEB. 14, 1965, 1900 G.C.T.															
DRY BULB 23.0		WET BULB 20.9		WIND SPEED 13, DIR. 19		BAR. 19		WEATHER 03		VIS. 7		CLOUD TYPE 6, COVER 8							
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.							
0.	23.00	35.08	5.27		24.01	390.6	0.	23.00	35.08	24.01	390.6	0.000							
10.	23.06	35.08	5.38		24.00	392.6	10.	23.06	35.08	24.00	392.6	0.039							
30. ^Δ	23.05	35.08			24.00	393.1	20.	23.07	35.08	24.00	393.1	0.079							
49.	23.04	35.08	5.28		24.00	393.6	30.	23.05	35.08	24.00	393.1	0.119							
73.	22.94	35.11	5.25		24.05	389.6	50.	23.04	35.08	24.00	393.6	0.198							
97.	22.43	35.28	5.29		24.33	364.3	75.	22.92	35.13	24.07	387.9	0.296							
121.	21.17	35.21	5.06		24.63	336.7	100.	22.29	35.28	24.37	360.8	0.391							
146.	20.13	35.21	5.05		24.91	310.8	150.	19.94	35.18	24.94	308.1	0.559							
168.	18.94	35.02	4.87		25.07	295.8	200.	16.38	34.65	25.41	263.6	0.703							
194.	16.87	34.72	4.63		25.35	269.6	250.	12.56	34.27	25.94	213.9	0.824							
218.	14.99	34.48	4.57		25.59	246.7	300.	10.01	34.17	26.33	176.8	0.922							
241.	13.55	34.34	4.57		25.79	228.1	400.	8.86	34.48	26.76	137.4	1.081							
255.	12.02	34.24	4.57		26.01	206.4	500.	7.78	34.50	26.94	121.4	1.211							
277.	10.70	34.14	4.64		26.18	190.7	600.	6.66	34.46	27.06	109.5	1.328							
369.	9.23	34.45	1.00		26.67	145.3	700.	5.68	34.42	27.15	101.1	1.434							
465.	8.17	34.50	0.54		26.88	126.8	800.	5.06	34.42	27.23	94.0	1.533							
554.	7.18	34.49	0.71		27.01	114.3	1000.	4.38	34.50	27.37	81.4	1.711							
740.	5.35	34.40	0.78		27.18	98.5	1200.	3.75	34.55	27.48	71.9	1.866							
926.	4.64	34.48	1.01		27.33	85.6													
1113.	4.01	34.53	1.17		27.43	75.8													
1393.	3.23	34.57	1.57		27.54	65.5													

TEMPERATURE ERROR TERM AT 300. METERS IS 0.19

CROMWELL		13, STATION		14, 20-30N LAT, 153-56W LONG, FEB. 15, 1965, 0400 G.C.T.													
DRY BULB 22.2		WET BULB 20.0		WIND SPEED 10, DIR. 13		BAR. 15		WEATHER 50		VIS. 7		CLOUD TYPE 8, COVER 8					
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.					
0.	23.13	34.74	5.30		23.72	418.7	0.	23.13	34.74	23.72	418.7	0.000					
11.	23.17	34.74	5.28		23.71	420.2	10.	23.17	34.74	23.71	420.1	0.042					
30.	23.16	34.76			23.73	419.2	20.	23.17	34.74	23.71	420.5	0.085					
51.	23.13	34.91	5.24		23.85	408.4	30.	23.16	34.76	23.73	419.2	0.127					
77.	22.44	35.07	5.27		24.17	379.0	50.	23.14	34.90	23.84	409.1	0.210					
101.	22.05	35.20	5.24		24.38	360.0	75.	22.50	35.06	24.14	381.4	0.310					
126.	20.25	35.01	4.75		24.72	327.6	100.	22.08	35.20	24.37	360.8	0.403					
153.	18.46	34.87	4.62		25.08	294.5	150.	18.64	34.88	25.04	297.8	0.569					
178.	17.24	34.75	4.74		25.28	275.4	200.	15.22	34.47	25.53	251.8	0.708					
203.	14.93	34.43	4.56		25.57	248.6	250.	11.93	34.16	25.97	210.6	0.824					
227.	13.32	34.28	4.55		25.79	227.5	300.	9.83	34.07	26.28	181.6	0.923					
252.	11.82	34.15	4.81		25.98	209.3	400.	7.37	34.07	26.65	145.8	1.088					
278.	10.57	34.08	4.74		26.16	192.9	500.	6.27	34.23	26.93	119.9	1.223					
303.	9.74	34.07	4.29		26.29	180.2	600.	5.24	34.29	27.11	103.6	1.335					
403.	7.32	34.07	2.60		26.66	145.0	700.	4.68	34.37	27.24	91.7	1.434					
504.	6.24	34.24	1.21		26.94	119.0	800.	4.39	34.46	27.33	83.0	1.523					
604.	5.20	34.29	0.80		27.11	103.1	1000.	3.87	34.52	27.44	73.9	1.681					
805.	4.38	34.46	0.95		27.34	82.6	1200.	3.29	34.55	27.52	66.4	1.823					
1006.	3.86	34.52	1.21		27.44	73.8	1500.	2.67	34.60	27.62	57.4	2.012					
1208.	3.27	34.55	1.52		27.52	66.1											
1510.	2.65	34.60	1.82		27.62	57.1											

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA							
CROMWELL 13, STATION 15, 22- 4N LAT, 153-52W LONG, FEB. 15, 1965, 1400 G.C.T.														
ORY BULB 21.9			WET BULB 19.7		WIND SPEED 08, DIR. 23		BAR. 17		WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	22.94	34.90	5.84		23.90	401.9	0.	22.94	34.90	23.90	401.9	0.000		
10.	22.87	34.92	5.30		23.93	398.9	10.	22.87	34.92	23.93	398.9	0.040		
30. ^Δ	22.68	35.04			24.08	385.9	20.	22.78	34.98	24.00	392.9	0.080		
50.	22.48	35.13	5.26		24.20	374.7	30.	22.68	35.04	24.08	385.9	0.119		
74.	22.30	35.22	5.22		24.32	364.2	50.	22.48	35.13	24.20	374.7	0.196		
98.	21.39	35.21	5.06		24.57	341.6	75.	22.27	35.22	24.33	363.4	0.289		
122.	20.42	35.13	4.98		24.77	323.1	100.	21.31	35.20	24.58	339.9	0.378		
147.	19.51	35.06	4.83		24.95	306.2	150.	19.40	35.05	24.98	304.3	0.540		
170.	18.60	34.96	4.91		25.11	291.9	200.	17.07	34.75	25.32	272.4	0.685		
194.	17.41	34.80	4.92		25.28	276.2	250.	13.93	34.36	25.72	234.7	0.813		
218.	15.96	34.58	4.76		25.45	260.3	300.	11.22	34.08	26.04	204.7	0.924		
242.	14.35	34.39	4.81		25.66	240.6	400.	8.36	34.04	26.49	162.2	1.109		
266.	13.11	34.29	4.95		25.84	223.7	500.	6.26	34.06	26.80	132.7	1.258		
288.	11.74	34.12	4.81		25.97	210.9	600.	5.31	34.17	27.01	113.2	1.382		
383.	8.83	34.05	3.93		26.42	168.6	700.	4.82	34.31	27.17	98.2	1.469		
475.	6.63	34.04	2.45		26.73	138.7	800.	4.56	34.42	27.28	88.1	1.583		
569.	5.53	34.13	1.29		26.95	118.8	1000.	4.07	34.51	27.41	77.3	1.750		
756.	4.68	34.39	0.74		27.24	91.7	1200.	3.54	34.56	27.50	68.7	1.898		
944.	4.24	34.49	1.01		27.38	80.0								
1131.	3.66	34.53	1.25		27.47	71.7								
1415.	3.02	34.58	1.62		27.57	62.4								

CROMWELL 13, STATION 16, 23-28N LAT, 153-58W LONG, FEB. 15, 1965, 2200 G.C.T.													
ORY BULB 23.2		WET BULB 20.8		WIND SPEED 10, DIR. 09		BAR. 16		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	23.38	34.82	5.25		23.71	419.8	0.	23.38	34.82	23.71	419.8	0.000	
9.	23.34	34.85	5.26		23.74	416.9	10.	23.34	34.85	23.75	416.6	0.042	
30.Δ	23.22	34.91			23.82	410.1	20.	23.28	34.88	23.78	413.5	0.084	
50.	23.08	35.00	5.24		23.93	400.5	30.	23.22	34.91	23.82	410.1	0.125	
75.	22.66	35.14	5.22		24.16	379.8	50.	23.08	35.00	23.93	400.5	0.207	
100.	22.24	35.19	5.14		24.31	365.8	75.	22.66	35.14	24.16	379.8	0.305	
126.	21.00	35.17	4.92		24.64	335.3	100.	22.24	35.19	24.31	365.8	0.399	
152.	19.46	35.05	4.74		24.96	305.8	150.	19.58	35.06	24.94	307.9	0.569	
176.	18.06	34.84	4.54		25.15	287.9	200.	16.69	34.68	25.36	268.5	0.714	
203.	16.50	34.66	4.79		25.39	265.9	250.	13.73	34.35	25.76	231.4	0.840	
228.	14.58	34.42	4.78		25.64	242.8	300.	11.30	34.19	26.11	197.9	0.949	
253.	13.62	34.34	4.88		25.78	229.8	400.	8.88	34.08	26.44	167.2	1.133	
279.	11.89	34.23	5.05		26.03	205.3	500.	6.61	34.05	26.74	138.0	1.287	
303.	11.25	34.19	4.94		26.12	197.2	600.	5.38	34.13	26.96	117.2	1.416	
405.	8.76	34.08	4.57		26.46	165.7	700.	4.78	34.25	27.13	101.7	1.526	
507.	6.47	34.05	2.29		26.76	136.2	800.	4.46	34.37	27.26	90.2	1.623	
607.	5.33	34.14	1.12		26.98	115.9	1000.	3.98	34.49	27.40	77.7	1.793	
809.	4.44	34.38	0.73		27.27	89.3	1200.	3.40	34.55	27.51	67.8	1.940	
1011.	3.96	34.49	1.08		27.41	77.2	1500.	2.84	34.58	27.59	60.8	2.136	
1213.	3.36	34.55	1.51		27.51	67.2							
1515.	2.82	34.58	1.71		27.59	60.6							

CROMWELL 13, STATION 17, 23-26N LAT, 150-55W LONG, FEB. 16, 1965, 1400 G.C.T.																
ORY BULB 22.6			WET BULB 19.8			WIND SPEED 13, DIR. 15			BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH.				
0.	22.62	34.95			24.02	389.6	0.	22.62	34.95	24.02	389.6	0.000				
10.	22.62	34.96			24.03	389.2	10.	22.62	34.96	24.03	389.2	0.039				
30.Δ	22.66	34.97			24.03	390.4	20.	22.64	34.97	24.03	389.8	0.078				
52.	22.61	34.98			24.05	389.1	30.	22.66	34.97	24.03	390.4	0.118				
77.	22.11	35.18			24.34	362.1	50.	22.62	34.98	24.04	389.7	0.196				
101.	21.56	35.26			24.56	342.6	75.	22.16	35.16	24.32	364.7	0.291				
126.	20.12	35.15			24.86	314.2	100.	21.59	35.26	24.55	343.4	0.381				
153.	19.30	35.09			25.03	299.0	150.	19.38	35.10	25.02	300.2	0.543				
178.	18.40	34.95			25.15	288.1	200.	17.13	34.74	25.30	274.2	0.687				
202.	16.99	34.72			25.32	272.6	250.	13.40	34.34	25.82	225.4	0.813				
228.	14.82	34.46			25.61	244.8	300.	11.63	34.20	26.06	203.5	0.922				
252.	13.29	34.33			25.83	223.9	400.	8.45	34.04	26.48	163.6	1.107				
278.	12.34	34.26			25.97	211.5	500.	6.39	34.04	26.76	135.9	1.258				
303.	11.54	34.19			26.07	202.4	600.	5.24	34.15	27.00	114.0	1.384				
404.	8.33	34.04			26.49	162.1	700.	4.68	34.28	27.16	98.5	1.492				
505.	6.31	34.04			26.78	134.8	800.	4.38	34.39	27.28	87.7	1.586				
607.	5.19	34.16			27.01	112.7	1000.	3.90	34.50	27.42	75.9	1.751				
808.	4.37	34.40			27.29	87.0	1200.	3.38	34.54	27.50	68.2	1.897				
1010.	3.88	34.50			27.42	75.5	1500.	2.81	34.59	27.60	59.7	2.092				
1211.	3.35	34.54			27.51	67.9										
1515.	2.78	34.59			27.60	59.4										

ΔFROM BT DATA

Table 3.-Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA						
CROMWELL 13, STATION 18, 22- ON LAT, 150-58W LONG, FEB. 16, 1965, 2300 G.C.T. ORY BULB 24.2 WET BULB 21.0 WIND SPEED 10, DIR. 17 BAR. 14 WEATHER 21 VIS. 7 CLOUD TYPE 6, COVER 6														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN. OPTH.		
0.	23.47	34.14			23.17	471.4	0.	23.47	34.14	23.17	471.4	0.000		
9.	23.33	34.15			23.22	467.1	10.	23.32	34.15	23.22	466.9	0.047		
30. Δ	23.28	34.18			23.25	464.4	20.	23.27	34.16	23.24	465.2	0.094		
50.	23.32	34.26			23.30	460.5	30.	23.28	34.18	23.25	464.4	0.141		
75.	22.98	34.61			23.66	426.8	50.	23.32	34.26	23.30	460.5	0.234		
99.	19.37	34.58			24.63	335.8	75.	22.98	34.61	23.66	426.8	0.346		
124.	17.26	34.62			25.18	283.6	100.	19.28	34.58	24.65	333.3	0.442		
149.	14.29	34.36			25.65	239.0	150.	14.22	34.35	25.66	238.0	0.586		
173.	13.06	34.28			25.84	221.1	200.	11.84	34.30	26.09	197.4	0.695		
199.	11.88	34.30			26.09	198.1	250.	9.42	34.15	26.41	168.0	0.787		
224.	10.76	34.24			26.25	183.2	300.	8.42	34.18	26.59	151.0	0.868		
248.	9.50	34.16			26.40	168.6	400.	6.45	34.20	26.88	123.5	1.006		
274.	8.76	34.09			26.46	162.6	500.	6.23	34.37	27.05	109.0	1.124		
298.	8.46	34.18			26.58	151.8	600.	5.74	34.42	27.15	100.2	1.229		
396.	6.47	34.19			26.87	124.3	700.	5.20	34.45	27.24	92.4	1.327		
497.	6.24	34.37			27.05	109.3	800.	4.71	34.47	27.31	85.8	1.417		
596.	5.76	34.42			27.15	100.6	1000.	4.14	34.52	27.41	77.0	1.582		
795.	4.73	34.47			27.31	86.1	1200.	3.57	34.55	27.50	69.5	1.730		
985.	4.19	34.52			27.41	77.6								
1178.	3.56	34.54			27.49	70.1								
1472.	3.02	34.59			27.58	62.0								

CROMWELL 13, STATION 19, 20-29N LAT, 150-59W LONG, FEB. 17, 1965, 0900 G.C.T. ORY BULB 22.9 WET BULB 19.7 WIND SPEED 16, DIR. 35 BAR. 16 WEATHER 01 VIS. 6 CLOUD TYPE 4, COVER 7														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN. OPTH.		
0.	23.50	34.48			23.42	447.7	0.	23.50	34.48	23.42	447.7	0.000		
10.	23.61	34.53			23.42	447.5	10.	23.61	34.53	23.42	447.5	0.045		
30. Δ	23.58	34.64			23.51	439.5	20.	23.63	34.58	23.46	444.7	0.090		
50.	23.35	34.79			23.69	423.1	30.	23.58	34.64	23.51	439.5	0.135		
75.	23.25	35.01			23.89	405.4	50.	23.35	34.79	23.69	423.1	0.221		
99.	22.83	35.10			24.08	388.2	75.	23.25	35.01	23.89	405.4	0.326		
123.	21.91	35.29			24.48	350.6	100.	22.80	35.11	24.09	386.9	0.426		
148.	20.16	35.18			24.88	313.8	150.	20.02	35.16	24.90	311.7	0.602		
173.	18.38	34.91			25.13	290.4	200.	16.46	34.67	25.40	264.4	0.747		
197.	16.68	34.70			25.38	266.9	250.	11.57	34.16	26.04	203.6	0.865		
222.	14.62	34.43			25.63	242.7	300.	9.67	34.10	26.32	177.0	0.961		
246.	11.84	34.18			26.00	207.3	400.	6.97	34.13	26.76	135.8	1.119		
271.	10.58	34.13			26.19	189.2	500.	6.34	34.32	27.00	114.2	1.245		
295.	9.84	34.10			26.30	179.5	600.	5.15	34.32	27.14	100.4	1.353		
392.	7.05	34.11			26.73	138.1	700.	4.72	34.40	27.25	90.2	1.449		
491.	6.45	34.32			26.98	115.7	800.	4.55	34.49	27.34	82.7	1.537		
589.	5.22	34.31			27.12	101.7	1000.	3.91	34.53	27.44	73.8	1.695		
784.	4.60	34.48			27.33	83.6	1200.	3.37	34.56	27.52	66.2	1.837		
972.	3.99	34.52			27.43	75.0								
1165.	3.45	34.56			27.51	67.2								
1458.	2.82	34.60			27.60	58.8								

CROMWELL 13, STATION 20, 19- ON LAT, 151- ON LONG, FEB. 17, 1965, 1700 G.C.T. ORY BULB 23.0 WET BULB 19.8 WIND SPEED 14, DIR. 35 BAR. 15 WEATHER 03 VIS. 7 CLOUD TYPE 8, COVER 6														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN. OPTH.		
0.	23.71	34.55			23.41	448.5	0.	23.71	34.55	23.41	448.5	0.000		
10.	23.73	34.55			23.40	449.4	10.	23.73	34.55	23.40	449.4	0.045		
30. Δ	23.70	34.70			23.52	438.6	20.	23.72	34.61	23.45	445.0	0.090		
51.	23.63	34.82			23.63	428.7	30.	23.70	34.70	23.52	438.6	0.135		
77.	23.53	34.94			23.75	418.3	50.	23.63	34.81	23.63	429.2	0.222		
102.	21.96	35.02			24.26	370.6	75.	23.57	34.93	23.74	419.8	0.329		
128.	20.86	35.08			24.61	338.3	100.	22.10	35.01	24.22	374.7	0.429		
153.	19.76	35.08			24.90	311.2	150.	19.91	35.09	24.87	314.2	0.603		
178.	18.04	34.82			25.14	289.0	200.	16.83	34.70	25.35	270.1	0.750		
204.	16.58	34.68			25.39	266.3	250.	12.78	34.24	25.87	220.4	0.874		
229.	14.20	34.39			25.69	237.2	300.	10.07	34.09	26.25	184.3	0.976		
254.	12.53	34.22			25.90	217.4	400.	7.17	34.07	26.68	142.9	1.141		
279.	10.78	34.10			26.13	195.0	500.	5.85	34.21	26.97	116.4	1.272		
305.	9.95	34.09			26.27	182.2	600.	5.51	34.38	27.14	100.5	1.381		
405.	7.05	34.07			26.70	141.2	700.	5.11	34.45	27.25	91.0	1.478		
507.	5.81	34.22			26.98	114.9	800.	4.68	34.48	27.32	84.8	1.567		
608.	5.50	34.39			27.15	99.6	1000.	4.10	34.53	27.42	76.1	1.730		
810.	4.64	34.48			27.33	84.4	1200.	3.52	34.56	27.51	68.4	1.876		
1013.	4.07	34.53			27.43	75.6	1500.	2.82	34.59	27.60	59.9	2.071		
1213.	3.48	34.56			27.51	67.9								
1515.	2.79	34.59			27.60	59.5								

 Δ FROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 13, STATION 21, 17-27N LAT, 150-59M LONG, FEB. 18, 1965, 0200 G.C.T.													
DRY BULB 26.5		WET BULB 22.0		WIND SPEED 15, DIR. 01		BAR. 15		WEATHER 01		VIS. 9		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	24.28	34.21			22.98	489.1	0.	24.28	34.21	22.98	489.1	0.000	
11.	24.26	34.25			23.02	486.1	10.	24.26	34.25	23.02	486.3	0.049	
30.	24.16	34.29			23.08	481.1	20.	24.22	34.27	23.05	483.5	0.098	
52.	24.10	34.32			23.12	478.0	30.	24.16	34.29	23.08	481.1	0.147	
78.	24.21	34.64			23.33	459.1	50.	24.10	34.31	23.11	478.5	0.243	
103.	22.99	34.95			23.92	403.6	75.	24.23	34.60	23.29	462.7	0.362	
129.	20.94	34.90			24.45	353.4	100.	23.19	34.92	23.84	411.0	0.472	
155.	20.75	35.15			24.70	331.3	150.	20.75	35.10	24.66	334.6	0.660	
179.	19.85	35.13			24.92	310.7	200.	17.95	34.86	25.20	284.7	0.816	
205.	17.42	34.78			25.26	278.2	250.	13.05	34.29	25.85	222.4	0.944	
230.	14.90	34.45			25.59	247.3	300.	10.44	34.28	26.33	176.7	1.044	
255.	12.63	34.26			25.91	216.4	400.	8.36	34.34	26.72	140.2	1.204	
280.	11.00	34.23			26.20	189.3	500.	7.68	34.46	26.92	123.0	1.337	
305.	10.35	34.29			26.36	174.3	600.	6.80	34.48	27.06	110.2	1.455	
407.	8.25	34.34			26.74	138.8	700.	6.00	34.48	27.17	100.5	1.561	
509.	7.65	34.47			26.93	121.9	800.	5.37	34.49	27.25	92.9	1.659	
610.	6.70	34.48			27.07	109.1	1000.	4.49	34.53	27.38	80.9	1.835	
813.	5.30	34.49			27.26	92.0	1200.	3.81	34.55	27.47	72.7	1.990	
1014.	4.44	34.53			27.39	80.2	1500.	3.10	34.60	27.58	62.6	2.196	
1216.	3.76	34.55			27.47	72.1	2000.	2.21	34.65	27.70	50.6	2.484	
1508.	3.08	34.60			27.58	62.3	2500.	1.85	34.67	27.74	46.7	2.731	
1520.	3.03	34.60			27.59	61.7	3000.	1.64	34.69	27.77	44.3	2.964	
2000.	2.21	34.65			27.70	50.6	4000.	1.42	34.71	27.80	42.4	3.408	
2504.	1.85	34.67			27.74	46.7							
3511.	1.52	34.70			27.79	43.1							
4519.**	1.44 **	34.71 **			27.80	43.8							

CROMWELL 13, STATION 22, 16- ON LAT, 151- 2W LONG, FEB. 18, 1965, 1300 G.C.T.														
DRY BULB 23.0	WET BULB 20.9	WIND SPEED 21	DIR. 03	BAR. 15	WEATHER 02	VIS. 6	CLOUD TYPE 6, COVER 6							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	24.03	34.07			22.95	492.1	0.	24.03	34.07	22.95	492.1	0.000		
10.	24.06	34.07			22.94	493.3	10.	24.06	34.07	22.94	493.3	0.050		
50.	23.97	34.08			22.98	491.6	20.	24.06	34.02	22.90	497.7	0.100		
75.	23.80	34.68			23.48	444.5	30.	24.05	34.00	22.89	498.8	0.150		
99.	21.22	34.88			24.36	361.0	50.	23.97	34.08	22.98	491.6	0.250		
123.	19.58	34.99			24.88	312.1	75.	23.80	34.68	23.48	444.5	0.367		
148.	17.74	34.82			25.22	280.9	100.	21.14	34.89	24.39	358.5	0.469		
172.	14.19	34.38			25.69	236.1	150.	17.44	34.78	25.26	277.0	0.629		
197.	12.34	34.35			26.04	202.9	200.	12.19	34.37	26.08	198.8	0.749		
221.	11.45	34.52			26.34	174.7	250.	11.17	34.64	26.48	161.8	0.839		
246.	11.22	34.63			26.47	163.1	300.	10.42	34.64	26.62	149.7	0.918		
271.	10.87	34.65			26.55	156.0	400.	9.30	34.64	26.80	133.4	1.061		
295.	10.49	34.64			26.61	150.7	500.	8.31	34.57	26.91	124.7	1.191		
392.	9.38	34.64			26.79	134.2	600.	7.27	34.53	27.03	113.5	1.311		
492.	8.40	34.57			26.90	125.6	700.	6.41	34.51	27.13	104.0	1.421		
589.	7.37	34.53			27.02	114.7	800.	5.74	34.51	27.22	96.3	1.523		
786.	5.82	34.51			27.21	97.1	1000.	4.80	34.52	27.34	85.2	1.706		
982.	4.88	34.52			27.33	86.3	1200.	4.02	34.55	27.45	75.5	1.869		
1177.	4.10	34.55			27.44	76.0								
1471.	3.26	34.58			27.55	65.7								

CROMWELL 13, STATION 23, 14-30N LAT, 151- 1W LONG, FEB. 18, 1965, 2200 G.C.T.														
DRY BULB 24.8	WET BULB 22.0	WIND SPEED 22	DIR. 03	BAR. 17	WEATHER 02	VIS. 9	CLOUD TYPE 8, COVER 4							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	24.30	33.99			22.81	505.5	0.	24.30	33.99	22.81	505.5	0.000		
10.	24.24	34.00			22.84	503.5	10.	24.24	34.00	22.84	503.5	0.051		
30.	24.18	34.00			22.85	502.5	20.	24.21	34.00	22.85	502.9	0.101		
50.	24.06	34.00			22.89	499.9	30.	24.18	34.00	22.85	502.5	0.152		
75.	21.21	34.67			24.21	375.1	50.	24.06	34.00	22.89	499.9	0.253		
99.	19.50	34.78			24.74	324.5	75.	21.21	34.67	24.21	375.1	0.363		
124.	18.62	34.81			24.99	301.7	100.	19.47	34.79	24.75	323.5	0.451		
149.	16.00	34.51			25.39	264.1	150.	15.86	34.50	25.41	262.0	0.599		
173.	12.82	34.29			25.90	215.7	200.	10.95	34.27	26.24	183.5	0.711		
198.	11.06	34.28			26.22	184.9	250.	10.31	34.47	26.51	159.0	0.797		
223.	10.20	34.26			26.36	172.2	300.	9.28	34.47	26.68	143.0	0.874		
246.	10.46	34.48			26.49	160.9	400.	7.95	34.47	26.89	124.4	1.008		
272.	9.38	34.39			26.60	150.2	500.	7.09	34.51	27.04	110.8	1.127		
297.	9.31	34.47			26.67	143.6	600.	6.32	34.48	27.12	103.6	1.235		
395.	8.00	34.47			26.88	125.2	700.	5.68	34.50	27.22	95.3	1.336		
493.	7.15	34.51			27.03	111.4	800.	5.15	34.52	27.30	87.6	1.428		
591.	6.38	34.48			27.11	104.4	1000.	4.30	34.54	27.41	77.5	1.595		
788.	5.21	34.52			27.29	86.4	1200.	3.65	34.56	27.50	69.7	1.745		
986.	4.35	34.54			27.41	78.1								
1182.	3.73	34.56			27.49	70.7								
1481.	3.00	34.60			27.59	61.1								

ΔFROM ST DATA
 **EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 13, STATION 24, 13- ON LAT, 151- ON LONG, FEB. 19, 1965, 0800 G.C.T.												
DRY BULB 24.5		WET BULB 21.8		WIND SPEED 24, DIR. 05		BAR. 12		WEATHER 02		VIS. 7 CLOUD TYPE , COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.92	34.33			22.88	498.8	0.	24.92	34.33	22.88	498.8	0.000
9.	24.93	34.34			22.89	498.7	10.	24.93	34.34	22.89	498.7	0.050
48.	24.92	34.34			22.89	499.9	20.	24.94	34.35	22.89	499.0	0.100
72.	24.82	34.31			22.90	500.1	30.	24.94	34.35	22.89	499.3	0.151
96.	20.48	34.82			24.52	346.1	50.	24.99	34.33	22.86	503.0	0.252
121.	15.97	34.48			25.37	264.8	75.	24.39	34.38	23.08	482.8	0.376
144.	12.75	34.34			25.95	210.0	100.	19.72	34.79	24.69	329.4	0.478
167.	11.56	34.48			26.29	178.3	150.	12.30	34.36	26.06	200.0	0.612
192.	11.21	34.63			26.47	161.6	200.	11.10	34.64	26.50	158.8	0.702
216.	10.88	34.65			26.54	154.9	250.	10.39	34.65	26.63	147.2	0.779
240.	10.52	34.65			26.61	149.3	300.	9.86	34.65	26.72	139.7	0.852
265.	10.21	34.65			26.66	144.5	400.	8.87	34.61	26.85	128.3	0.987
288.	9.97	34.65			26.70	141.0	500.	7.71	34.60	27.02	113.4	1.109
384.	9.06	34.61			26.82	131.1	600.	6.78	34.52	27.09	107.1	1.220
481.	7.91	34.61			27.00	115.0	700.	6.06	34.50	27.17	99.9	1.325
576.	6.98	34.53			27.07	108.8	800.	5.48	34.51	27.26	92.4	1.422
770.	5.65	34.51			27.23	94.7	1000.	4.55	34.55	27.40	79.6	1.596
961.	4.71	34.55			27.37	81.6	1200.	3.82	34.58	27.49	70.5	1.748
1155.	3.98	34.57			27.47	72.8						
1445.	3.17	34.60			27.57	62.9						

CROMWELL 13, STATION 25, 11-30N LAT, 150-57W LONG, FEB. 19, 1965, 1700 G.C.T.												
DRY BULB 24.3		WET BULB 22.0		WIND SPEED 35, DIR. 04		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.56	34.10			22.82	505.0	0.	24.56	34.10	22.82	505.0	0.000
11.	24.57	34.10			22.81	505.7	10.	24.57	34.10	22.81	505.7	0.051
30.4	24.55	34.10			22.82	505.9	20.	24.56	34.10	22.82	505.8	0.102
48.	24.56	34.10			22.82	506.8	30.	24.55	34.10	22.82	505.9	0.153
72.	20.25	34.80			24.56	340.9	50.	24.26	34.16	22.95	494.0	0.254
95.	18.09	34.70			25.04	296.1	75.	19.94	34.81	24.65	332.2	0.358
119.	14.68	34.37			25.57	245.4	100.	17.37	34.62	25.15	285.2	0.435
143.	12.67	34.49			26.08	197.4	150.	12.34	34.57	26.21	185.8	0.554
166.	11.81	34.72			26.43	165.2	200.	11.12	34.72	26.56	153.3	0.639
190.	11.25	34.72			26.53	155.7	250.	10.64	34.72	26.64	146.1	0.715
213.	10.99	34.73			26.59	150.9	300.	10.23	34.72	26.71	140.7	0.787
237.	10.76	34.73			26.63	147.4	400.	9.49	34.68	26.81	133.1	0.925
260.	10.55	34.72			26.66	145.1	500.	8.67	34.64	26.91	125.2	1.056
283.	10.36	34.72			26.69	142.3	600.	7.65	34.59	27.02	114.8	1.177
377.	9.65	34.69			26.79	134.6	700.	6.71	34.56	27.13	104.7	1.288
473.	8.93	34.65			26.88	127.8	800.	5.94	34.55	27.22	96.2	1.389
567.	7.99	34.60			26.98	118.5	1000.	4.87	34.55	27.36	84.0	1.572
757.	6.22	34.55			27.19	99.3	1200.	4.02	34.57	27.46	74.0	1.732
949.	5.14	34.55			27.32	87.1	1500.	3.26	34.60	27.56	64.6	1.943
1142.	4.21	34.56			27.44	76.3	2000.	2.34	34.64	27.68	52.9	2.241
1432.	3.42	34.59			27.54	66.7	2500.	1.92	34.66	27.73	48.3	2.499
1984.	2.36	34.64			27.68	53.2	3000.	1.76	34.68	27.76	46.4	2.741
2488.	1.93	34.66			27.73	48.4	4000.	1.48	34.70	27.80	43.6	3.202
2992.	1.76	34.68			27.76	46.5	5000.	1.42	34.71	27.80	44.6	3.657
3949.	1.44	34.70			27.80	43.1						
5011.	1.42	34.71			27.80	44.7						

CROMWELL 13, STATION 26, 10- 5N LAT, 148- 9W LONG, FEB. 20, 1965, 1500 G.C.T. DRY BULB 25.5 WET BULB 23.2 WIND SPEED 20, DIR. 05 BAR. 10 WEATHER 02 VIS. 7 CLOUD TYPE 8, COVER 8												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	25.57	33.98	5.31		22.42	542.9	0.	25.57	33.98	22.42	542.9	0.000
10.	25.58	33.98	5.30		22.42	543.6	10.	25.58	33.98	22.42	543.6	0.055
30.6	25.55	33.98			22.43	543.5	20.	25.72	33.95	22.35	550.3	0.110
52.	22.66	34.52	5.29		23.69	423.7	30.	25.55	33.98	22.43	543.5	0.165
78.	15.36	34.45	3.69		25.49	252.6	50.	23.05	34.47	23.54	437.7	0.264
103.	12.89	34.59	0.71		26.12	193.3	75.	16.19	34.47	25.32	268.7	0.353
128.	11.78	34.70	0.28		26.42	165.2	100.	13.03	34.57	26.07	197.5	0.411
153.	11.21	34.70	0.27		26.52	155.6	150.	11.26	34.70	26.52	156.2	0.501
178.	10.92	34.72	0.26		26.59	149.6	200.	10.67	34.73	26.64	145.1	0.576
204.	10.63	34.73	0.32		26.65	144.5	250.	10.17	34.69	26.70	140.3	0.648
230.	10.37	34.71	0.32		26.68	142.1	300.	9.73	34.68	26.77	134.9	0.718
255.	10.12	34.69	0.42		26.71	139.9	400.	8.93	34.65	26.88	126.2	0.850
280.	9.92	34.69	0.36		26.74	137.1	500.	7.93	34.58	26.97	118.0	0.973
305.	9.68	34.68	0.38		26.78	134.4	600.	7.01	34.55	27.08	108.1	1.087
407.	8.88	34.65	0.28		26.88	125.7	700.	6.12	34.53	27.19	98.3	1.191
510.	7.82	34.57	0.51		26.98	117.1	800.	5.43	34.53	27.27	90.7	1.287
611.	6.92	34.55	0.36		27.00	107.0	1000.	4.89	34.57	27.37	83.1	1.463
815.	5.35	34.53	0.64		27.28	89.8	1200.	3.81	34.58	27.49	70.4	1.618
945.	5.15	34.56	1.20		27.33	86.4	1500.	3.01	34.61	27.59	60.7	1.818
1222.	3.68	34.58	1.61		27.51	69.0						
1526.	2.92	34.61	1.90		27.60	59.7						

TEMPERATURE ERROR TERM AT 20. METERS IS 0.10
 TEMPERATURE ERROR TERM AT 75. METERS IS 0.15

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 13, STATION 27, 11-30N LAT, 148-1W LONG, FEB. 20, 1965, 2400 G.C.T.													
DRY BULB 25.0		WET BULB 23.0		WIND SPEED 20, DIR. 03		BAR. 12		WEATHER 02		VIS. 6		CLOUD TYPE 6, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	24.74	34.15	5.21		22.80	506.6	0.	24.74	34.15	22.80	506.6	0.000	
11.	24.75	34.14	5.23		22.79	508.0	10.	24.75	34.14	22.79	507.9	0.051	
30.Δ	24.80	34.19			22.81	506.6	20.	24.77	34.16	22.80	507.6	0.102	
50.	24.83	34.22	5.16		22.83	506.0	30.	24.80	34.19	22.81	506.6	0.153	
75.	18.84	34.70	4.86		24.85	313.3	50.	24.83	34.22	22.83	506.0	0.255	
99.	13.92	34.33	3.32		25.71	232.3	75.	18.84	34.70	24.85	313.3	0.359	
125.	12.53	34.59	0.70		26.19	187.0	100.	13.82	34.34	25.73	230.0	0.427	
150.	11.76	34.70	0.31		26.42	165.3	150.	11.76	34.70	26.42	165.3	0.527	
174.	11.32	34.73	0.29		26.53	155.8	200.	10.93	34.72	26.59	150.3	0.606	
200.	10.93	34.72	0.34		26.59	150.3	250.	10.33	34.71	26.69	141.9	0.680	
224.	10.68	34.72	0.39		26.63	146.5	300.	9.99	34.70	26.74	138.0	0.750	
248.	10.35	34.71	0.46		26.68	142.1	400.	9.32	34.68	26.83	130.5	0.886	
273.	10.17	34.71	0.48		26.72	139.6	500.	8.39	34.61	26.93	122.7	1.014	
297.	10.01	34.70	0.46		26.74	138.2	600.	7.34	34.57	27.05	111.6	1.132	
397.	9.34	34.68	0.26		26.83	130.7	700.	6.45	34.55	27.16	101.9	1.240	
498.	8.41	34.61	0.30		26.93	123.0	800.	5.72	34.54	27.25	93.8	1.339	
596.	7.38	34.57	0.36		27.05	112.0	1000.	4.75	34.55	27.37	82.5	1.517	
795.	5.75	34.54	0.71		27.24	94.1	1200.	3.89	34.57	27.48	72.2	1.674	
993.	4.78	34.55	0.93		27.37	82.9							
1192.	3.87	34.57	1.36		27.48	71.8							
1493.	3.02	34.60	1.75		27.59	61.4							

CROMWELL 13, STATION 28, 12-58N LAT, 148-1W LONG, FEB. 21, 1965, 0900 G.C.T. DRY BULB 24.6 WET BULB 21.9 WIND SPEED 18, DIR. 03 BAR. 13 WEATHER 02 VIS. 6 CLOUD TYPE , COVER 8																	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.51	34.13	4.94		22.85	501.4	0.	24.51	34.13	22.85	501.4	0.	24.51	34.13	22.85	501.4	0.000
12.	24.54	34.12	4.93		22.84	503.4	10.	24.54	34.12	22.84	503.2	10.	24.54	34.12	22.84	503.2	0.051
51.	24.52	34.13	4.89		22.85	503.7	20.	24.54	34.12	22.84	503.8	20.	24.54	34.12	22.84	503.8	0.101
76.	24.53	34.13	4.86		22.85	504.9	30.	24.54	34.12	22.84	504.0	30.	24.54	34.12	22.84	504.0	0.152
101.	19.20	34.62	4.34		24.70	328.8	50.	24.52	34.13	22.85	503.7	50.	24.52	34.13	22.85	503.7	0.254
127.	13.96	34.39	2.25		25.74	229.5	75.	24.58	34.13	22.83	506.6	75.	24.58	34.13	22.83	506.6	0.381
151.	12.21	34.49	1.07		26.17	189.0	100.	19.46	34.60	24.62	336.5	100.	19.46	34.60	24.62	336.5	0.487
176.	11.60	34.60	0.63		26.37	170.4	150.	12.24	34.48	26.16	190.1	150.	12.24	34.48	26.16	190.1	0.620
203.	11.09	34.63	0.41		26.49	159.8	200.	11.14	34.63	26.48	160.7	200.	11.14	34.63	26.48	160.7	0.708
227.	10.69	34.67	0.23		26.59	150.4	250.	10.44	34.68	26.65	145.9	250.	10.44	34.68	26.65	145.9	0.785
252.	10.42	34.68	0.22		26.65	145.6	300.	9.91	34.66	26.72	139.5	300.	9.91	34.66	26.72	139.5	0.857
278.	10.10	34.66	0.18		26.69	142.2	400.	8.67	34.59	26.87	126.5	400.	8.67	34.59	26.87	126.5	0.992
303.	9.88	34.66	0.22		26.73	139.1	500.	7.62	34.56	27.01	114.6	500.	7.62	34.56	27.01	114.6	1.113
403.	8.63	34.59	0.27		26.88	126.1	600.	6.66	34.55	27.13	103.2	600.	6.66	34.55	27.13	103.2	1.223
504.	7.58	34.56	0.36		27.01	114.2	700.	5.89	34.54	27.23	94.6	700.	5.89	34.54	27.23	94.6	1.323
605.	6.62	34.55	0.46		27.14	102.7	800.	5.27	34.54	27.30	87.8	800.	5.27	34.54	27.30	87.8	1.415
806.	5.24	34.54	0.59		27.30	87.5	1000.	4.41	34.56	27.41	77.6	1000.	4.41	34.56	27.41	77.6	1.583
1008.	4.38	34.56	0.91		27.42	77.2	1200.	3.71	34.59	27.51	68.6	1200.	3.71	34.59	27.51	68.6	1.731
1208.	3.69	34.59	1.27		27.51	68.2	1500.	2.95	34.61	27.60	60.0	1500.	2.95	34.61	27.60	60.0	1.926
1512.	2.93	34.61	1.68		27.60	59.7											

CROMWELL 13, STATION 29, 14-30N LAT, 147-58W LONG, FEB. 21, 1965, 1900 G.C.T. DRY BULB 24.7 WET BULB 22.0 WIND SPEED 16, DIR. 02 BAR. 15 WEATHER 01 VIS. 7 CLOUD TYPE 8, COVER 4																	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.11	34.10	4.98		22.95	492.2	0.	24.11	34.10	22.95	492.2	0.	24.11	34.10	22.95	492.2	0.000
11.	24.08	34.09	5.08		22.95	492.5	10.	24.08	34.09	22.95	492.5	10.	24.08	34.09	22.95	492.5	0.050
30.Δ	24.07	34.09			22.95	492.9	20.	24.09	34.09	22.95	493.2	20.	24.09	34.09	22.95	493.2	0.099
52.	23.72	34.10	4.94		23.06	483.2	30.	24.07	34.09	22.95	492.9	30.	24.07	34.09	22.95	492.9	0.149
77.	21.35	34.77	4.98		24.24	371.6	50.	23.79	34.09	23.03	486.1	50.	23.79	34.09	23.03	486.1	0.248
102.	19.43	34.88	4.86		24.84	315.6	75.	21.57	34.71	24.14	381.3	75.	21.57	34.71	24.14	381.3	0.357
128.	18.14	34.82	4.63		25.12	289.7	100.	19.56	34.88	24.81	318.5	100.	19.56	34.88	24.81	318.5	0.445
154.	14.53	34.36	4.09		25.60	244.0	150.	15.14	34.43	25.52	251.2	150.	15.14	34.43	25.52	251.2	0.588
177.	11.84	34.19	3.57		26.01	204.9	200.	10.47	34.22	26.28	179.1	200.	10.47	34.22	26.28	179.1	0.697
204.	10.35	34.24	2.82		26.32	175.8	250.	10.05	34.49	26.57	153.1	250.	10.05	34.49	26.57	153.1	0.781
229.	10.29	34.41	1.36		26.46	162.8	300.	8.93	34.47	26.73	137.7	300.	8.93	34.47	26.73	137.7	0.854
254.	9.98	34.50	0.93		26.58	151.5	400.	8.48	34.59	26.90	123.9	400.	8.48	34.59	26.90	123.9	0.986
280.	9.30	34.44	0.97		26.65	145.4	500.	7.45	34.56	27.03	112.6	500.	7.45	34.56	27.03	112.6	1.105
304.	8.87	34.48	0.86		26.75	136.1	600.	6.74	34.52	27.10	106.4	600.	6.74	34.52	27.10	106.4	1.216
405.	8.48	34.59	0.30		26.90	123.8	700.	5.96	34.51	27.19	97.7	700.	5.96	34.51	27.19	97.7	1.319
507.	7.37	34.55	0.35		27.03	111.9	800.	5.24	34.52	27.29	89.0	800.	5.24	34.52	27.29	89.0	1.413
607.	6.70	34.52	0.34		27.10	106.1	1000.	4.52	34.56	27.40	79.1	1000.	4.52	34.56	27.40	79.1	1.584
810.	5.17	34.52	0.59		27.30	88.1	1200.	3.80	34.64	27.54	66.1	1200.	3.80	34.64	27.54	66.1	1.731
1012.	4.49	34.56	0.76		27.41	78.6	1500.	3.04	34.62	27.60	60.0	1500.	3.04	34.62	27.60	60.0	1.923
1213.	3.75	34.64	1.19		27.55	65.3											
1516.	3.00	34.62	1.76		27.60	59.9											

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 13, STATION 30, 15-57N LAT, 147-58W LONG, FEB. 22, 1965, 0400 G.C.T.												
DRY BULB 21.7		WET BULB 19.2		WIND SPEED 35, DIR. 33		BAR. 15		WEATHER 99		VIS. 5 CLOUD TYPE 9, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	23.67	34.10	5.06		23.08	479.9	0.	23.67	34.10	23.08	479.9	0.000
9.	23.72	34.16	5.17		23.11	477.3	10.	23.72	34.16	23.11	477.3	0.048
50.	23.69	34.18	5.02		23.13	476.5	20.	23.72	34.17	23.11	477.2	0.096
74.	23.78	34.37	5.03		23.25	466.3	30.	23.72	34.17	23.12	477.1	0.146
99.	21.29	34.88	5.34		24.34	362.9	50.	23.69	34.18	23.13	476.5	0.240
123.	20.01	34.96	4.79		24.75	325.1	75.	23.69	34.39	23.29	462.4	0.359
148.	18.67	34.86	4.59		25.02	300.1	100.	21.23	34.89	24.37	360.6	0.462
173.	15.95	34.49	4.11		25.39	265.2	150.	18.49	34.83	25.04	297.7	0.628
198.	12.83	34.26	2.63		25.87	218.7	200.	12.70	34.26	25.90	215.9	0.758
223.	11.80	34.41	1.61		26.19	189.1	250.	11.30	34.56	26.40	170.0	0.855
247.	11.40	34.56	0.70		26.38	171.5	300.	10.44	34.60	26.59	152.7	0.936
272.	10.63	34.52	0.82		26.49	161.4	400.	8.99	34.56	26.80	134.0	1.081
297.	10.48	34.60	0.59		26.58	153.5	500.	8.08	34.55	26.93	122.6	1.210
396.	9.03	34.56	0.40		26.79	134.5	600.	6.86	34.48	27.05	111.3	1.328
495.	8.14	34.55	0.47		26.92	123.2	700.	6.05	34.47	27.15	102.0	1.436
595.	6.91	34.48	0.60		27.04	111.8	800.	5.48	34.49	27.24	94.3	1.535
793.	5.52	34.49	0.49		27.23	94.7	1000.	4.61	34.51	27.35	83.6	1.715
993.	4.64	34.51	0.82		27.35	84.0	1200.	3.82	34.54	27.46	73.1	1.874
1192.	3.79	34.55	1.44		27.47	72.3						
1494.	3.08	34.59	1.50		27.57	62.9						

CROMWELL 13, STATION 31, 17-30N LAT, 148- 2W LONG, FEB. 22, 1965, 1400 G.C.T.													
DRY BULB 20.3		WET BULB 19.3		WIND SPEED 14, DIR. 33		BAR. 14		WEATHER 51		VIS. 6		CLOUD TYPE , COVER 9	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	23.45	34.26	5.33		23.26	462.2	0.	23.45	34.26	23.26	462.2	0.000	
10.	23.49	34.26	4.91		23.25	463.7	10.	23.49	34.26	23.25	463.7	0.047	
30.Δ	23.52	34.26			23.24	465.3	20.	23.51	34.26	23.25	464.7	0.093	
50.	23.48	34.26	5.53		23.26	464.9	30.	23.52	34.26	23.24	465.3	0.140	
75.	23.28	34.73	5.27		23.67	426.4	50.	23.48	34.26	23.26	464.9	0.234	
99.	21.36	34.88	5.27		24.32	364.7	75.	23.28	34.73	23.67	426.4	0.346	
123.	20.43	34.99	5.04		24.66	333.5	100.	21.30	34.89	24.34	362.9	0.446	
149.	20.18	35.02	4.91		24.75	325.9	150.	20.18	35.02	24.75	325.8	0.619	
172.	19.91	35.01	4.79		24.81	320.6	200.	18.46	34.87	25.07	296.4	0.776	
197.	18.71	34.90	4.56		25.04	299.8	250.	13.00	34.27	25.85	222.5	0.907	
221.	16.35	34.60	4.26		25.38	267.5	300.	10.12	34.12	26.27	182.7	1.009	
245.	13.36	34.30	4.37		25.80	227.3	400.	8.55	34.31	26.67	145.4	1.174	
270.	11.86	34.20	4.40		26.01	206.8	500.	7.16	34.37	26.92	122.1	1.309	
294.	10.33	34.12	4.32		26.23	186.2	600.	6.13	34.36	27.06	109.7	1.426	
391.	8.69	34.30	1.81		26.64	148.2	700.	5.53	34.41	27.17	99.6	1.532	
492.	7.26	34.37	0.86		26.91	123.3	800.	5.11	34.46	27.26	91.3	1.629	
589.	6.21	34.36	0.70		27.04	110.9	1000.	4.29	34.51	27.39	79.4	1.802	
786.	5.18	34.46	0.82		27.25	92.4	1200.	3.66	34.55	27.48	71.0	1.954	
984.	4.34	34.51	0.99		27.38	80.2							
1182.	3.74	34.54	1.14		27.47	72.3							
1482.	3.00	34.58	1.58		27.57	62.6							

CROMWELL 13, STATION 32, 19- ON LAT, 148- 2W LONG, FEB. 22, 1965, 2300 G.C.T.													
DRY BULB 21.8		WET BULB 18.2		WIND SPEED 08, DIR. 36		BAR. 15		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	22.90	34.45	5.09		23.57	433.3	0.	22.90	34.45	23.57	433.3	0.000	
10.	22.82	34.45	5.14		23.59	431.5	10.	22.82	34.45	23.59	431.5	0.044	
30.Δ	22.75	34.45			23.61	430.4	20.	22.77	34.45	23.60	430.6	0.087	
52.	22.76	34.45	5.08		23.61	431.4	30.	22.75	34.45	23.61	430.4	0.130	
75.Δ	23.08	34.76			23.75	418.7	50.	22.75	34.44	23.60	431.6	0.217	
77.	23.09	34.79	5.05		23.77	416.9	75.	23.08	34.76	23.75	418.7	0.324	
103.	22.05	34.98	5.08		24.21	375.9	100.	22.22	34.97	24.15	381.1	0.425	
128.	21.11	35.04	4.98		24.51	347.7	150.	20.44	35.10	24.74	327.1	0.603	
153.	20.34	35.10	4.70		24.77	324.4	200.	17.61	34.76	25.20	283.7	0.757	
178.	19.16	35.04	4.70		25.03	300.0	250.	12.70	34.23	25.88	219.6	0.884	
204.	17.26	34.70	4.28		25.24	280.3	300.	10.19	34.16	26.28	181.2	0.985	
229.	14.52	34.36	3.74		25.60	245.9	400.	8.60	34.31	26.66	146.3	1.151	
254.	12.42	34.22	3.55		25.92	215.3	500.	7.03	34.30	26.88	125.7	1.288	
279.	11.47	34.22	2.75		26.10	198.4	600.	6.26	34.38	27.05	110.4	1.407	
305.	9.88	34.14	3.16		26.32	177.4	700.	5.70	34.44	27.17	99.8	1.513	
407.	8.63	34.33	1.16		26.67	145.3	800.	5.20	34.47	27.25	92.2	1.610	
509.	6.89	34.29	0.93		26.90	124.3	1000.	4.42	34.51	27.37	81.5	1.786	
611.	6.21	34.39	0.62		27.07	109.0	1200.	3.71	34.54	27.47	72.3	1.942	
813.	5.14	34.47	0.58		27.26	91.4	1500.	3.03	34.58	27.57	63.2	2.148	
1017.	4.36	34.51	0.96		27.38	80.7							
1218.	3.65	34.54	1.10		27.48	71.5							
1522.	2.99	34.58	1.44		27.57	62.7							

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL		13, STATION		33, 20-32N LAT, 148- 1W LONG, FEB. 23, 1965, 0900 G.C.T.									
DRY BULB 20.8		WET BULB 16.8		WIND SPEED 11, DIR. 31		BAR. 15		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.89	34.32	4.91		23.47	442.4	0.	22.89	34.32	23.47	442.4	0.000	
10.	22.95	34.32	5.10		23.45	444.4	10.	22.95	34.32	23.45	444.4	0.045	
30.Δ	22.68	34.38			23.58	433.5	20.	22.84	34.32	23.48	441.9	0.089	
48.	22.50	34.77	5.10		23.92	401.1	30.	22.68	34.38	23.58	433.5	0.133	
72.	22.51	35.19	5.02		24.24	372.0	50.	22.50	34.81	23.96	398.1	0.217	
95.	22.37	35.30	4.97		24.36	361.1	75.	22.55	35.22	24.25	370.8	0.314	
119.	20.24	35.01	4.83		24.73	327.1	100.	21.97	35.25	24.43	354.3	0.405	
143.	19.05	34.91	4.62		24.96	305.5	150.	18.81	34.89	25.00	301.8	0.571	
166.	18.19	34.81	4.49		25.10	292.8	200.	15.92	34.51	25.41	263.8	0.713	
189.	16.57	34.59	4.29		25.32	272.2	250.	12.08	34.12	25.91	216.0	0.834	
213.	15.08	34.42	4.10		25.53	252.8	300.	10.36	34.22	26.30	179.4	0.934	
236.	12.90	34.19	4.39		25.80	226.2	400.	8.16	34.25	26.68	143.8	1.097	
260.	11.65	34.11	4.01		25.98	209.3	500.	6.84	34.28	26.90	123.9	1.232	
283.	10.84	34.19	3.32		26.19	189.6	600.	6.48	34.42	27.05	110.6	1.350	
377.	8.67	34.26	2.02		26.61	150.6	700.	5.62	34.43	27.17	99.1	1.456	
471.	6.96	34.24	1.31		26.85	128.4	800.	5.05	34.44	27.24	92.7	1.553	
566.	6.77	34.40	0.62		27.00	115.3	1000.	4.64	34.50	27.34	84.7	1.733	
755.	5.13	34.42	0.82		27.22	94.4	1200.	3.91	34.54	27.45	74.5	1.894	
944.	4.92	34.49	0.96		27.30	88.6							
1134.	3.89	34.52	1.39		27.44	75.2							
1420.	3.14	34.57	1.39		27.55	64.6							

TEMPERATURE ERROR TERM AT 700. METERS IS 0.11
 TEMPERATURE ERROR TERM AT 1200. METERS IS 0.18

CROMWELL		13, STATION		34, 22- ON LAT, 147-55W LONG, FEB. 23, 1965, 1800 G.C.T.															
DRY BULB 19.8		WET BULB 17.0		WIND SPEED 14, DIR. 36		BAR. 11		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 6							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.DPTH.							
0.	22.18	34.78	5.11		24.02	390.0	0.	22.18	34.78	24.02	390.0	0.000							
11.	22.18	34.79	5.20		24.03	389.7	10.	22.18	34.79	24.03	389.8	0.039							
30. Δ	22.32	34.96			24.12	381.9	20.	22.23	34.86	24.06	386.5	0.078							
50.	22.50	35.14	5.05		24.20	374.5	30.	22.32	34.96	24.12	381.9	0.117							
76.	22.12	35.26	5.05		24.40	356.6	50.	22.50	35.14	24.20	374.5	0.193							
100.	21.85	35.34	5.03		24.54	344.5	75.	22.14	35.26	24.39	357.3	0.285							
126.	20.52	35.18	4.92		24.78	322.2	100.	21.85	35.34	24.54	344.5	0.374							
151.	19.58	35.11	4.76		24.97	304.4	150.	19.62	35.11	24.97	305.1	0.538							
175.	18.37	34.92	4.54		25.14	289.5	200.	17.34	34.80	25.30	274.8	0.684							
200.	17.34	34.80	4.73		25.30	274.8	250.	14.11	34.37	25.70	237.4	0.813							
224.	15.92	34.59	4.67		25.47	258.9	300.	11.36	34.17	26.08	200.6	0.923							
250.	14.11	34.37	4.93		25.70	237.4	400.	8.47	34.06	26.49	162.6	1.106							
275.	12.30	34.23	4.93		25.95	212.8	500.	6.14	34.06	26.81	131.0	1.255							
300.	11.36	34.17	4.96		26.08	200.6	600.	5.18	34.20	27.04	109.6	1.376							
400.	8.47	34.06	4.13		26.49	162.6	700.	4.75	34.33	27.19	95.8	1.480							
501.	6.12	34.06	1.97		26.82	130.7	800.	4.55	34.43	27.30	86.9	1.572							
601.	5.12	34.20	0.76		27.04	109.4	1000.	4.00	34.50	27.41	76.9	1.738							
800.	4.55	34.43	0.88		27.30	86.9	1200.	3.47	34.54	27.50	68.9	1.886							
1000.	4.00	34.50	1.04		27.41	76.9													
1199.	3.46	34.54	1.17		27.50	69.1													
1498.	2.81	34.58	1.56		27.59	60.4													

CROMWELL		13, STATION		35, 23-28N LAT, 148- 2W LCNG, FEB. 24, 1965, 0200 G.C.T.											
DRY BULB 21.5		WET BULB 18.5		WIND SPEED 08, DIR. 36		BAR. 15		WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 4			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	CEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
1.	21.55	34.44	5.23		23.94	397.9	0.	21.55	34.44	23.94	397.9	0.000			
10.	21.43	34.47	5.21		23.99	392.9	10.	21.43	34.47	23.99	392.9	0.040			
50.	21.53	35.12	5.15		24.46	350.0	20.	21.42	34.62	24.11	382.4	0.079			
76.	21.46	35.26	5.16		24.58	339.0	30.	21.44	34.77	24.22	371.8	0.117			
101.	21.07	35.27	5.16		24.70	329.0	50.	21.53	35.12	24.46	350.0	0.190			
126.	20.14	35.19	4.95		24.89	311.8	75.	21.47	35.26	24.58	339.3	0.276			
151.	19.01	35.06	4.92		25.08	294.0	100.	21.09	35.27	24.69	329.5	0.361			
175.	18.10	34.91	4.97		25.20	283.8	150.	19.06	35.07	25.08	294.6	0.518			
201.	16.52	34.68	4.86		25.40	264.9	200.	16.59	34.69	25.39	265.7	0.659			
225.	14.79	34.46	4.96		25.62	244.1	250.	13.45	34.34	25.81	226.3	0.783			
250.	13.45	34.34	4.94		25.81	226.3	300.	11.23	34.19	26.12	196.8	0.890			
276.	11.87	34.21	4.93		26.02	206.4	400.	8.56	34.05	26.46	164.8	1.072			
300.	11.23	34.19	5.17		26.12	196.8	500.	6.32	34.04	26.78	134.8	1.223			
400.	8.56	34.05	4.99		26.46	164.8	600.	5.33	34.12	26.96	117.4	1.351			
501.	6.30	34.04	2.32		26.78	134.6	700.	4.76	34.27	27.14	100.5	1.461			
601.	5.32	34.12	1.13		26.96	117.2	800.	4.42	34.41	27.29	86.9	1.556			
801.	4.42	34.41	0.79		27.29	86.8	1000.	4.00	34.50	27.41	76.8	1.721			
992.	4.02	34.50	1.13		27.41	77.1	1200.	3.55	34.54	27.49	69.7	1.870			
1187.	3.56	34.53	1.21		27.48	70.9									
1482.	2.90	34.57	1.61		27.57	62.1									

SALINITY ERROR TERM AT 30. METERS IS 0.06

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 13, STATION 36, 25- 2N LAT, 148- 1W LONG, FEB. 24, 1965, 1300 G.C.T.		WIND SPEED 12, DIR. 02		BAR. 11		WEATHER 02		VIS. 7		CLOUD TYPE , COVER 4				
DRY BULB 21.8		WET BULB 18.8												
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	21.76	34.87	5.30		24.21	372.3	0.	21.76	34.87	24.21	372.3	0.000		
10.	21.75	34.87	4.76		24.21	372.4	10.	21.75	34.87	24.21	372.4	0.038		
30.Δ	21.44	35.08			24.45	349.8	20.	21.61	34.96	24.32	362.4	0.075		
51.	21.35	35.24	5.10		24.60	336.7	30.	21.44	35.08	24.45	349.8	0.110		
76.	21.27	35.29	5.02		24.66	331.9	50.	21.35	35.23	24.60	337.1	0.180		
101.	20.24	35.21	4.89		24.88	312.0	75.	21.28	35.29	24.66	332.1	0.264		
126.	19.46	35.13	4.87		25.02	299.1	100.	20.29	35.21	24.87	312.9	0.345		
153.	18.59	34.99	4.77		25.14	288.9	150.	18.69	35.01	25.12	290.0	0.497		
177.	17.60	34.83	4.77		25.26	277.9	200.	16.23	34.64	25.44	260.9	0.636		
204.	15.96	34.61	4.97		25.48	257.6	250.	13.09	34.28	25.84	223.3	0.758		
229.	14.30	34.41	4.92		25.69	237.7	300.	11.25	34.15	26.08	200.4	0.865		
253.	12.93	34.27	4.69		25.86	221.3	400.	9.03	34.07	26.41	170.6	1.052		
277.	11.86	34.20	5.05		26.01	206.9	500.	6.74	34.02	26.70	142.0	1.210		
303.	11.19	34.14	5.03		26.09	199.8	600.	5.37	34.09	26.93	119.9	1.342		
405.	8.92	34.07	5.22		26.42	169.0	700.	4.62	34.22	27.12	102.6	1.454		
507.	6.60	34.02	2.69		26.72	140.2	800.	4.20	34.34	27.26	89.4	1.551		
607.	5.30	34.10	1.25		26.95	118.5	1000.	3.77	34.48	27.41	76.0	1.719		
809.	4.18	34.35	0.60		27.27	88.4	1200.	3.36	34.53	27.50	68.8	1.865		
1011.	3.76	34.48	1.07		27.42	75.6	1500.	2.78	34.58	27.59	60.0	2.061		
1212.	3.34	34.53	1.27		27.50	68.5								
1515.	2.75	34.58	1.62		27.59	59.8								

CROMWELL 13, STATION 37, 26-27N LAT, 148- 2W LONG, FEB. 24, 1965, 2100 G.C.T.		WIND SPEED 07, DIR. 23		BAR. 10		WEATHER 02		VIS. 8		CLOUD TYPE 6, COVER 7				
DRY BULB 21.0		WET BULB 18.2												
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	21.39	35.25	5.31		24.60	335.1	0.	21.39	35.25	24.60	335.1	0.000		
10.	21.19	35.25	5.35		24.65	330.2	10.	21.19	35.25	24.65	330.2	0.034		
30.Δ	21.13	35.25			24.67	329.4	20.	21.13	35.25	24.67	328.9	0.067		
51.	21.17	35.25	5.26		24.66	331.2	30.	21.13	35.25	24.67	329.4	0.100		
77.	21.16	35.24	5.30		24.65	332.6	50.	21.17	35.25	24.66	331.1	0.166		
102.	21.17	35.25	5.33		24.66	333.1	75.	21.16	35.24	24.65	332.6	0.250		
127.	20.38	35.22	4.99		24.85	315.8	100.	21.18	35.25	24.65	333.4	0.334		
152.	18.76	35.01	5.00		25.11	291.6	150.	18.89	35.03	25.09	293.3	0.492		
178.	17.78	34.86	4.86		25.24	279.9	200.	16.47	34.68	25.41	264.0	0.632		
203.	16.28	34.65	4.86		25.43	261.8	250.	13.47	34.34	25.81	226.7	0.756		
229.	14.97	34.49	4.89		25.60	245.8	300.	11.59	34.24	26.10	199.2	0.863		
253.	13.26	34.32	4.94		25.83	224.1	400.	9.53	34.11	26.35	176.0	1.053		
280.	12.26	34.27	5.21		25.99	209.3	500.	7.13	34.02	26.65	147.3	1.216		
304.	11.46	34.24	5.16		26.12	197.4	600.	5.57	34.05	26.88	125.3	1.353		
405.	9.45	34.10	4.99		26.36	175.3	700.	4.78	34.16	27.06	108.5	1.472		
507.	6.97	34.02	3.14		26.67	145.3	800.	4.37	34.29	27.20	95.3	1.575		
608.	5.48	34.06	1.63		26.90	123.8	1000.	3.83	34.44	27.38	79.0	1.751		
810.	4.35	34.30	0.47		27.21	94.2	1200.	3.37	34.51	27.48	70.4	1.902		
1013.	3.80*	34.45	1.01		27.39	78.3	1500	2.80	34.57	27.58	61.0	2.102		
1214.	3.34	34.51	1.25		27.48	70.0								
1518.	2.77	34.57	1.59		27.58	60.8								

CROMWELL 13, STATION 38, 25- 2N LAT, 151- 6W LONG, FEB. 25, 1965, 1500 G.C.T.		WIND SPEED 26, DIR. 30		BAR. 07		WEATHER 02		VIS. 7		CLOUD TYPE , COVER 3				
DRY BULB 18.4		WET BULB 16.2												
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	21.38	35.18			24.55	339.9	0.	21.38	35.18	24.55	339.9	0.000		
9.	21.42	35.18			24.54	341.3	10.	21.42	35.18	24.54	341.2	0.034		
30.Δ	21.41	35.23			24.58	338.2	20.	21.42	35.20	24.55	340.1	0.069		
49.	21.40	35.26			24.60	336.4	30.	21.41	35.23	24.58	338.2	0.103		
73.	21.36	35.27			24.62	335.6	50.	21.40	35.26	24.60	336.4	0.171		
97.	21.10	35.24			24.67	331.8	75.	21.35	35.27	24.62	335.6	0.255		
120.	20.38	35.21			24.84	316.3	100.	21.04	35.24	24.69	330.3	0.339		
145.	18.96	35.04			25.08	294.0	150.	18.67	35.00	25.12	290.2	0.496		
169.	17.59	34.83			25.26	277.4	200.	16.00	34.59	25.45	259.6	0.634		
194.	16.35	34.64			25.41	263.8	250.	13.34	34.28	25.79	228.3	0.757		
217.	15.02	34.47			25.58	248.0	300.	11.05	34.12	26.10	198.6	0.865		
241.	13.94	34.34			25.71	235.9	400.	8.28	34.04	26.50	160.9	1.046		
265.	12.36	34.20			25.92	215.9	500.	6.43	34.05	26.77	135.6	1.196		
289.	11.43	34.14			26.05	203.8	600.	5.31	34.13	26.97	116.1	1.323		
385.	8.63	34.05			26.45	165.6	700.	4.63	34.25	27.14	100.3	1.432		
481.	6.71	34.04			26.72	139.8	800.	4.27	34.36	27.27	88.9	1.528		
578.	5.51	34.11			26.93	120.1	1000.	3.92	34.48	27.41	77.2	1.696		
771.	4.34	34.33			27.24	91.4	1200.	3.46	34.55	27.50	68.6	1.844		
963.	4.02	34.47			27.38	79.0								
1160.	3.49	34.52			27.48	70.6								
1451.	2.87	34.57			27.58	61.6								

ΔFROM BT DATA
*INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 13, STATION 39, 24-58N LAT, 154- 2W LONG, FEB. 26, 1965, 0800 G.C.T.												
DRY BULB 16.8		WET BULB 14.3		WIND SPEED 22, DIR. 02		BAR. 18		WEATHER 02		VIS. CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	21.48	35.20	5.53		24.53	341.1	0.	21.48	35.20	24.53	341.1	0.000
11.	21.51	35.19	5.22		24.52	343.0	10.	21.51	35.19	24.52	342.8	0.034
50.	21.50	35.18	5.10		24.51	344.9	20.	21.52	35.18	24.51	343.8	0.069
74.	21.50	35.19	5.11		24.52	345.1	30.	21.52	35.18	24.51	344.5	0.104
98.	21.48	35.20	5.09		24.53	344.7	50.	21.50	35.18	24.51	344.9	0.173
122.	21.11	35.25	4.97		24.67	332.3	75.	21.50	35.19	24.52	345.2	0.260
147.	20.06	35.17	4.85		24.89	312.0	100.	21.47	35.21	24.54	344.0	0.347
172.	19.56	35.12	4.79		24.99	303.9	150.	19.99	35.16	24.91	310.7	0.512
197.	18.87	35.03	4.74		25.10	294.3	200.	18.80	35.02	25.11	293.3	0.664
221.	18.16	34.94	4.74		25.21	284.5	250.	16.42	34.66	25.41	265.7	0.805
245.	16.79	34.71	4.71		25.36	270.2	300.	13.18	34.33	25.86	222.9	0.928
269.	14.98	34.48	4.72		25.59	247.9	400.	9.57	34.09	26.34	177.6	1.130
293.	13.53	34.36	4.82		25.81	227.6	500.	7.25	34.02	26.64	149.1	1.295
390.	9.86	34.11	4.67		26.30	181.0	600.	5.80	34.09	26.89	125.2	1.434
489.	7.46	34.02	3.44		26.60	152.0	700.	4.99	34.21	27.07	107.4	1.551
587.	5.93	34.08	1.70		26.86	127.8	800.	4.58	34.33	27.21	94.9	1.653
781.	4.64	34.31	0.63		27.19	96.6	1000.	4.07	34.45	27.36	81.3	1.832
977.	4.14	34.44	1.00		27.35	82.8	1200.	3.54	34.53	27.48	70.6	1.986
1171.	3.57	34.52	1.24		27.47	71.6						
1466.	2.91	34.57	1.54		27.57	62.1						

CROMWELL 13, STATION 40, 24-58N LAT, 156-58W LONG, FEB. 26, 1965, 2300 G.C.T. DRY BULB 20.9 WET BULB 15.9 WIND SPEED 16, DIR. 05 BAR. 22 WEATHER 03 VIS. 8 CLOUD TYPE 8, COVER 4												
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	21.73	35.20			24.46	347.7	0.	21.73	35.20	24.46	347.7	0.000
10.	21.74	35.21			24.47	347.6	10.	21.74	35.21	24.47	347.6	0.035
50.	21.68	35.20			24.48	348.2	20.	21.73	35.21	24.47	347.5	0.070
73.	21.71	35.20			24.47	349.9	30.	21.71	35.21	24.48	347.6	0.105
98.	21.69	35.20			24.48	350.3	50.	21.68	35.20	24.48	348.2	0.175
122.	21.37	35.23			24.59	340.5	75.	21.72	35.20	24.47	350.1	0.263
147.	21.10	35.21			24.65	335.8	100.	21.67	35.20	24.48	349.5	0.351
171.	19.57	35.03			24.92	310.7	150.	20.95	35.19	24.67	333.2	0.523
196.	17.73	34.81			25.21	283.0	200.	17.51	34.78	25.25	279.8	0.678
220.	16.41	34.66			25.41	264.5	250.	14.26	34.44	25.72	235.5	0.808
245.	14.61	34.47			25.67	240.2	300.	12.10	34.24	26.00	209.2	0.920
269.	13.10	34.33			25.87	220.7	400.	9.63	34.11	26.34	177.5	1.115
294.	12.27	34.25			25.97	211.3	500.	7.41	34.04	26.62	150.3	1.280
390.	9.87	34.12			26.31	180.4	600.	5.72	34.05	26.86	127.4	1.421
489.	7.84	34.04			26.59	153.2	700.	4.92	34.15	27.03	110.9	1.541
587.	5.86	34.04			26.83	129.9	800.	4.55	34.28	27.18	98.0	1.647
782.	4.62	34.26			27.15	100.1	1000.	3.95	34.45	27.38	79.8	1.826
977.	4.02	34.44			27.36	81.4	1200.	3.36	34.52	27.49	69.5	1.978
1171.	3.43	34.51			27.48	70.7	1500.	2.72	34.58	27.59	59.6	2.174
1464.	2.78	34.57			27.58	60.6	2000.	2.04	34.63	27.69	50.1	2.453
2031.	2.01	34.63			27.70	49.7	2500.	1.68	34.66	27.74	45.2	2.696
2534.	1.66	34.66			27.75	45.0	3000.	1.53	34.67	27.76	44.1	2.923
3037.	1.53	34.67			27.76	44.1						
3841.	1.46	34.69			27.79	43.8						

CROMWELL 13, STATION 41, 23-29N LAT, 156-58W LONG, FEB. 27, 1965, 0900 G.C.T.												
DRY BULB 21.3		WET BULB 16.0		WIND SPEED 17, DIR. 04		BAR. 17		WEATHER 02		VIS. 5		CLOUD TYPE , COVER 4
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	21.67	35.19			24.47	346.8	0.	21.67	35.19	24.47	346.8	0.000
10.	21.65	35.19			24.48	346.6	10.	21.65	35.19	24.48	346.6	0.035
49.	21.65	35.18			24.47	348.8	20.	21.64	35.19	24.48	347.0	0.070
73.	21.68	35.19			24.47	349.8	30.	21.64	35.18	24.48	347.5	0.105
97.	21.65	35.20			24.49	349.2	50.	21.65	35.18	24.47	348.9	0.175
120.	21.45	35.21			24.55	344.0	75.	21.68	35.19	24.47	349.9	0.263
145.	19.95	35.08			24.85	315.6	100.	21.66	35.20	24.49	349.2	0.351
170.	18.81	34.96			25.06	297.0	150.	19.73	35.06	24.90	311.6	0.518
194.	17.29	34.78			25.29	274.9	200.	18.80	34.72	25.77	267.8	0.664
218.	15.40	34.57			25.57	248.8	250.	13.91	34.41	25.77	230.2	0.789
242.	14.34	34.45			25.71	236.0	300.	11.78	34.24	26.06	203.4	0.899
266.	13.06	34.34			25.89	219.1	400.	8.83	34.08	26.45	166.7	1.085
290.	12.12	34.26			26.01	207.6	500.	6.54	34.05	26.75	137.3	1.239
387.	9.23	34.10			26.40	171.4	600.	5.83	34.20	26.96	118.1	1.366
485.	6.71	34.03			26.72	140.6	700.	5.09	34.32	27.15	100.9	1.476
581.	5.88	34.17			26.92	121.8	800.	4.49	34.41	27.28	87.9	1.574
776.	4.60	34.39			27.26	90.2	1000.	3.84	34.50	27.43	74.9	1.738
971.	3.92	34.49			27.41	76.4	1200.	3.35	34.56	27.52	66.4	1.882
1167.	3.46	34.55			27.50	68.1						
1462.	2.88	34.58			27.58	61.0						

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 13, STATION 42, 21-59N LAT, 157- 1W LONG, FEB. 27, 1965, 1800 G.C.T.													
DRY BULB 19.9		WET BULB 16.1		WIND SPEED 16, DIR. 08		BAR. 20		WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.	
0.	22.52	35.00			24.09	383.3	0.	22.52	35.00	24.09	383.3	0.000	
9.	22.55	35.00			24.08	384.4	10.	22.55	35.00	24.08	384.5	0.039	
30. Δ	22.56	35.00			24.08	385.5	20.	22.56	35.00	24.08	385.2	0.077	
50.	22.53	35.00			24.09	385.4	30.	22.56	35.00	24.08	385.5	0.116	
74.	22.24	35.16			24.29	366.9	50.	22.53	35.00	24.09	385.4	0.194	
98.	21.90	35.27			24.47	350.8	75.	22.23	35.17	24.30	366.2	0.289	
123.	21.20	35.25			24.65	334.7	100.	21.87	35.27	24.48	349.7	0.379	
149.	19.63	35.11			24.96	305.6	150.	19.58	35.10	24.97	304.8	0.544	
173.	18.42	34.93			25.13	289.9	200.	17.28	34.77	25.29	275.3	0.690	
198.	17.39	34.79			25.28	276.6	250.	14.11	34.40	25.72	235.4	0.819	
222.	15.90	34.58			25.47	259.1	300.	11.71	34.20	26.05	204.4	0.930	
248.	14.24	34.41			25.70	237.0	400.	8.46	34.11	26.53	158.9	1.113	
272.	12.80	34.27			25.89	219.3	500.	6.67	34.11	26.79	134.2	1.261	
297.	11.83	34.21			26.03	206.1	600.	5.53	34.23	27.02	112.0	1.385	
397.	8.53	34.11			26.52	159.8	700.	5.01	34.33	27.17	98.5	1.491	
496.	6.73	34.11			26.78	135.2	800.	4.75	34.42	27.27	89.8	1.587	
595.	5.56	34.22			27.01	112.8	1000.	4.07	34.50	27.40	77.7	1.756	
794.	4.77	34.42			27.26	90.2	1200.	3.53	34.54	27.49	69.8	1.905	
994.	4.09	34.50			27.40	77.9							
1192.	3.56	34.53			27.48	71.0							
1493.	2.96	34.58			27.58	62.2							

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